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PVO - private voluntary organization RORO - roll on/roll off RRF - Ready Reserve Force USDA - U.S. Department of Agriculture WFP - World Food Program

Letter

B-257842

September 29, 1994

The Honorable John B. Breaux Chairman, Subcommittee on Merchant Marine Committee on Commerce, Science and Transportation United States Senate

The Honorable Timothy J. Penny Chairman, Subcommittee on Foreign Agriculture and Hunger Committee on Agriculture House of Representatives

As you requested, we reviewed how cargo preference requirements apply to U.S. food aid programs. In our report we have provided matters for congressional consideration regarding the continued application of cargo preference requirements to food aid programs and made recommendations to the Secretaries of the Departments of Agriculture and Transportation and to the Administrator of the Agency for International Development that are intended to improve the management of this application, should it continue.

Copies of this report have been sent to the Secretaries of the Departments of Agriculture, Defense, State, and Transportation; the Administrators of the Agency for International Development, the Foreign Agricultural Service, and the Maritime Administration; the Director of the Office of Management and Budget; and other interested parties. Copies will also be made available to others on request.

Please contact me at (202) 512-4812 if you or your staff have any questions concerning this report. The major contributors to this report are listed in appendix X.

Allan I. Mendelowitz, Managing Director International Trade, Finance, and Competitiveness

EXECUTIVE SUMMARY	
=======================================	======= Chapter 0
DUDDOG	
PURPOSE	Chapter 0:1
	Chapter U. I

Over the past 3 years, an average of about \$200 million per year in government funds has been used to pay the added cost of shipping U.S. food aid to foreign countries on U.S.-flag ships rather than on lower-cost foreign-flag ships. Since 1954 Congress has required that a certain percentage of U.S. food aid be transported on U.S.-flag ships. This requirement is known as "cargo preference." The current requirement is that 75 percent of food aid tonnage be shipped on U.S.-flag ships. Although this rule results in higher transportation costs for U.S. food aid programs, the objective of this requirement is to help ensure that an adequate and viable merchant marine is maintained (1) to serve as a naval auxiliary in times of war or national emergency and (2) to carry a substantial portion of U.S. domestic and foreign waterborne commerce.

Due to the additional costs associated with transporting food aid on U.S.-flag ships, the Chairman of the Subcommittee on Merchant Marine, Senate Committee on Commerce, Science, and Transportation, and the Chairman of the Subcommittee on Foreign Agriculture and Hunger, House Committee on Agriculture, asked GAO to examine how cargo preference requirements apply to U.S. food aid programs. Specifically, GAO agreed to determine

whether the application of cargo preference requirements to food aid programs is meeting the intended objectives of helping to maintain U.S.-flag ships (1) to serve as a naval and military auxiliary in time of war or national emergency and (2) to carry a substantial portion of U.S. waterborne domestic and foreign commerce.

how cargo preference requirements affect U.S. food aid programs, and

how practices currently used by the U.S. Department of Agriculture (USDA) and the Agency for International Development (AID) in managing food aid transportation affect its costs.

### BACKGROUND ------- Chapter 0:2

Currently available data show that in 1991 U.S.-flag ships transported about 4 percent of all waterborne commerce imported into or exported from the United States (foreign commerce). Food aid preference cargos accounted for less than one-fourth of that percentage.

For the period 1990-93, 84 percent of the food aid tonnage transported on U.S.-flag ships was bulk commodities, such as wheat or corn, shipped on bulk carriers, tug/barge combinations, and tankers. These ships were typically chartered for specific voyages. Processed products such as cans of vegetable oil, or bags of flour or rice, accounted for the remaining 16 percent of the food aid tonnage and were typically transported on ships that provided a regularly scheduled service between specific ports known as "liner" service.

In addition to cargo preference, the Merchant Marine Act of 1936, as amended, established subsidy programs to help support the U.S.

merchant marine. These subsidies help (1) offset the high costs of constructing ships in U.S. shipyards and (2) U.S. shipowners compete with their foreign competitors by offsetting higher U.S. operating costs.\1 Congress developed these programs in response to general downturns in the U.S. maritime industry, to support a U.S. merchant marine sufficient to meet the objectives of the Merchant Marine Act of 1936.

In doing its work, GAO obtained cargo preference data and related information from AID, USDA, the Department of Defense (DOD), the Maritime Administration,\2 the World Food Program, two private voluntary organizations that assisted AID in distributing U.S. food aid, and several international shipbrokers. GAO also obtained ship data, as well as U.S. shipowners' views on the cargo preference program, through a structured interview conducted with representatives of 18 U.S. shipping companies. Together, these companies transported over 80 percent of U.S. food aid tonnage during the previous 3 years.

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\1 Since 1982 no funding has been provided for ship construction subsidies, and the Clinton administration has entered into an agreement with the Organization for Economic Cooperation and Development to eliminate government subsidies for shipbuilding by January 1, 1996. In addition, current subsidies for offsetting operating costs will expire by December 1998, although the Clinton administration has submitted proposed legislation to Congress that would continue operating support by establishing a similar subsidy program.

\2 The Maritime Administration is an agency of the U.S. Department of Transportation.

### RESULTS IN BRIEF ------ Chapter 0:3

The application of cargo preference to food aid programs does not significantly contribute to meeting the intended objectives of helping to maintain U.S.-flag ships as a naval and military auxiliary in time of war or national emergency or for purposes of domestic or foreign commerce. While applying cargo preference requirements to food aid programs does help support some U.S.-flag ships and their crews, in the case of serving as a naval and military auxiliary, DOD does not view the U.S.-flag ships employed to transport bulk commodities for food aid programs as militarily useful. As for the crews that support those ships, DOD believes that they could be a potential source of manpower for the Ready Reserve Force (RRF)\3 but does not believe that applying cargo preference to food aid programs is a cost-effective means of providing for crews.

In the case of domestic commerce, cargo preference is not an issue because all U.S. waterborne domestic cargo is already reserved for U.S.-flag ships by requirements included in the Merchant Marine Act of 1920, commonly referred to as the "Jones Act." And in the case of foreign commerce, GAO determined that the U.S.-flag ships that

transported the majority of food aid preference cargos were unable to compete successfully for other foreign commercial cargos because their operating costs were too high compared to the operating costs of their foreign-flag competitors. The U.S.-flag ships that DOD find militarily useful are liners. However, for over 75 percent of these ships, transporting food aid cargo is not the reason that they maintain their U.S.-flag status. Moreover, liners are generally able to compete for foreign commercial cargos largely due to subsidies they receive to place their operating costs at a parity with those of their foreign competitors.

A principal factor contributing to the high cost of operating U.S.-flag ships is the U.S. laws and regulations with which a shipowner must comply to operate a U.S.-flag ship. For example, U.S. laws require that a U.S.-flag ship be crewed by U.S. citizens. Due to higher wages and benefits, these crews cost several times the amount of foreign crews. Also, shipowners whose ships primarily carry bulk food aid preference cargos have reduced incentives to invest in newer and more efficient ships to lower their operating costs. This is because of the cost to construct ships in U.S. shipyards; the 3-year exclusion of foreign constructed ships from preference cargos; and the guideline shipping rates, which are based on the actual costs of each individual ship, irrespective of its efficiency. Thus, cargo preference laws make it possible for U.S. shipowners to maintain inefficient and commercially noncompetitive U.S.-flag ships that do not significantly contribute to the ability of the U.S. merchant marine to carry foreign commerce other than food aid.

Additionally, cargo preference adversely affects the operation of U.S. food aid programs. The most significant impact of applying cargo preference to food aid programs is the additional costs associated with using U.S.-flag ships to transport food aid. As the funds not spent on transportation may, in some instances, be used to purchase food, using U.S.-flag ships may reduce the funds available to purchase commodities. Thus, the amount of commodities delivered to recipient countries may be decreased. Other adverse impacts include not purchasing commodities at the lowest available price, or purchasing a different variety of commodity than originally planned. These adverse impacts occur because commodity purchasing decisions can be driven by the geographic availability of U.S.-flag ships, rather than the geographic availability of the lowest priced or most desired commodity.

Finally, several of the practices USDA and AID used to manage food aid transportation affect transportation costs. One of these practices is to require shipowners to accept contract terms that require them to arrange and pay for services that are typically the responsibility of the commodity supplier or buyer in commercial sales. Another is the concentration of food aid shipments into the last half of the year, which creates a high demand for limited U.S.-flag transportation services, thus driving up shipping rates.

\3 The Ready Reserve Force is a specific component of the National Defense Reserve Fleet. Ships in the Ready Reserve Force are kept at

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a state of readiness that enables them to be activated in 4, 5, 10, or 20 days to meet military sealift surge requirements in event of war or emergencies.

## PRINCIPAL FINDINGS ------ Chapter 0:4

OBJECTIVES OF MERCHANT MARINE ACT OF 1936 NOT SIGNIFICANTLY FURTHERED BY FOOD AID PREFERENCE CARGOS

------ Chapter 0:4.1

The Merchant Marine Act of 1936, as amended, established that a U.S. merchant marine shall be maintained that would be capable of serving as a naval auxiliary in times of war or national emergency and of carrying a substantial portion of U.S. domestic and foreign waterborne commerce. The application of cargo preference to food aid cargos helps maintain U.S.-flag ships and their crews. However, DOD does not currently view the U.S.-flag ships that transported 84 percent of food aid cargo preference tonnage--bulk carriers, tankers, and tug/barge combinations--as militarily useful. DOD believes that the U.S.-flag ships that participate in the food aid programs that are militarily useful are those engaged in providing liner service. DOD said these ships are an efficient way to transport ammunition and supplies. However, for the last 3 years, they transported only 16 percent of food aid tonnage carried on U.S.-flag ships. Furthermore, for over 75 percent of these ships, food aid cargo is not the reason they maintain their U.S.-flag status. Many of these ships are able to secure foreign commercial cargos because they receive annual operating subsidies from the Maritime Administration. These subsidies enable them to offer competitive rates and service.

As for crews, there are currently about 21,000 mariners in the U.S. merchant marine labor pool. DOD said that the mariners used on bulk carriers, tankers, and tug/barge combinations that transport food aid could be used as a potential source of manpower for the RRF. According to the Maritime Administration (MARAD), an agency of the Department of Transportation, the mariners used on the bulk carriers--which carry the majority of food aid cargos--number about 800. This represents less than 4 percent of the total labor pool. According to DOD, the RRF currently requires approximately 3,700 mariners. GAO believes that, given the size of the merchant marine pool, there should not be a labor supply problem for the RRF in the near future, even if the crew supported by the ships that carry the majority of food aid tonnage are not counted. Nevertheless, the size of the labor pool has been steadily declining over the years as the number of U.S.-flagged ships has decreased. DOD recognizes that as the U.S. merchant marine continues to decline, other alternatives for crewing the RRF may need to be considered in the future.

U.S.-flag bulk carriers and tug/barge combinations, which do not receive or use operating subsidies, are virtually dependent on food aid preference cargos to operate as U.S.-flag ships because they are unable to successfully compete for commercial cargos in foreign

commerce. Therefore, these U.S.-flag ships contribute little to the ability of the United States to carry its foreign commerce other than food aid. Almost all U.S.-flag tankers that carry bulk food aid preference cargos receive annual operating subsidies to help them compete for foreign commercial cargos. However, because these subsidies are expiring, tankers have been and will become more dependent on food aid preference cargos. Without operating subsidies, U.S.-flag ships cannot successfully compete for foreign commercial cargos, in part due to the additional costs associated with complying with the U.S. laws and regulations required for all U.S.-flag ships. U.S. laws and regulations require that U.S.-flag ships be constructed to U.S. Coast Guard safety standards. These standards are more stringent than international standards and add to the construction cost of U.S.-flag ships. U.S. law also requires that owners of U.S.-flag ships either maintain or repair them in a U.S. shipyard, whose services are more expensive than those available at a foreign shipyard, or pay a 50-percent U.S. Customs duty on the value of work done in a foreign shipyard. Even with the added cost of the 50-percent duty, U.S. shipowners told GAO that they still find it advantageous, in most circumstances, to have maintenance work on their ships done in foreign shipyards. In addition, U.S.-flag ships are required to employ U.S. citizen crews. This requirement greatly increases shipowners' operating costs because wages and benefits paid to U.S. crews are several times those of a foreign crew.

Moreover, U.S. shipowners whose ships carry food aid preference cargos have reduced incentives to lower their costs. For example, one of the primary ways that U.S. shipowners can lower their operating costs is to invest in newer, more efficient ships. U.S. shipowners are discouraged from doing this because of the high cost of constructing ships in U.S. shipyards. Also, current legislation requires that ships constructed in less expensive foreign shipyards be operated as U.S.-flag ships for 3 years (which, because of the higher operating costs, makes it almost impossible to compete without some form of assistance) before they are eligible to carry food aid preference cargos. Furthermore, since there is a limited number of U.S.-flag ships available to carry these cargos, and the Maritime Administration's "fair and reasonable" guideline rates--which establish the maximum rates that the government should pay--are constructed for each individual ship based on its actual costs, shipowners are able to secure food aid preference cargos despite the high cost of operating their older, inefficient U.S.-flag ships. As a result, the U.S.-flag ships and crews supported by this program increase the cost to transport U.S. food aid preference cargos.

CARGO PREFERENCE LAWS ADVERSELY AFFECT U.S. FOOD AID PROGRAMS

----- Chapter 0:4.2

Over the last 3 years the food aid programs have paid U.S. shipowners almost \$600 million in ocean freight differential, according to USDA data, which GAO understands to be the best available. Ocean freight differential is the difference between the rates per ton charged by owners of U.S.-flag ships used to carry food

aid cargos and the rates that would be charged by owners of less expensive foreign-flag ships. Generally, USDA pays two-thirds of this cost differential and the Maritime Administration pays one-third. For several of the food aid programs, the amount spent on this differential reduces the amount available to purchase commodities. For example, for one of these programs, the funds available for each country must be used to purchase both the commodity and its transportation. Therefore, the amount spent on U.S.-flag transportation directly affects the amount of commodity that can be purchased.

Additionally, for several of the food aid programs, countries are sometimes unable to purchase the lowest cost commodity, or the desired variety of commodity. This situation occurs when no U.S.-flag ships are available at the ports where these commodities are located, or when those U.S.-flag ships available are not appropriate to carry the commodity. For example, for a recent wheat purchase for Tunisia, Tunisia was unable to take advantage of the four lowest offers because no U.S.-flag ships were available to pick up the wheat at the times when and locations where it was available. To comply with cargo preference requirements, Tunisia was forced to obtain more expensive wheat that was available where U.S.-flag ships were also available. In addition, several countries have been interested in obtaining western white wheat that is obtainable from the West Coast of the United States. However, the availability of U.S.-flag ships on the West Coast is limited because food aid cargos are not often shipped from the West Coast. This situation has forced the recipient countries to obtain different varieties of wheat available in the Gulf of Mexico, where U.S.-flag ships are also more readily available.

CERTAIN USDA AND AID MANAGEMENT PRACTICES AFFECT FOOD AID TRANSPORTATION COSTS

------ Chapter 0:4.3

USDA and AID require shipowners to provide additional services to food aid recipient countries through the use of contract terms in transporting food aid cargos that are not typically required of shipowners whose ships carry similar commercial cargos. For example, for most landlocked countries, USDA and AID require shipowners to arrange and pay for transporting the commodity from the discharge port to its final destination. USDA and AID may also require shipowners to arrange and pay for any fumigation services required at the discharge port. USDA and AID choose to provide these services through the shipowners to give additional financial assistance to these needy countries. These additional services may increase transportation costs because they place additional costs and risks on the shipowners. Since shipowners must estimate the cost of providing these services before they are delivered and are paid based on their estimates, it is uncertain whether USDA and AID are paying more or less than the actual costs of providing these services.

Food aid transportation costs have also been increased because food aid shipments have not been spaced evenly throughout the year but are concentrated in the last half of the year. For example, in 1992, 94 percent of the food aid tonnage under one food aid program was shipped between July and December. And for 1993, 73 percent of the food aid tonnage was shipped between July and December. This concentration of food aid shipments caused increased demand for the limited number of U.S.-flag ships available and, on average, resulted in higher U.S.-flag shipping rates. The higher shipping rates were due to the entry of higher-cost U.S.-flag ships to meet the increased demand--which raised the cost of transporting food aid preference cargos.

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If Congress continues to support the objectives for which cargo preference is applied to food aid programs and is willing to continue to devote resources to that end, Congress may wish to consider a more efficient alternative for achieving those objectives. For example, a program like the current subsidy program that offsets ship operating costs, which will have expired by 1998, could be used to support those ships, and their crews, that DOD finds militarily useful and that could also successfully compete for U.S. foreign commercial cargos.

If Congress decides to continue to apply cargo preference to food aid programs, it may wish to consider giving U.S. shipowners incentives to invest in more efficient ships in order to reduce food aid transportation costs.

### RECOMMENDATIONS ------ Chapter 0:6

GAO makes recommendations to AID, USDA, and the Maritime Administration focused on reducing food aid transportation costs (pp. 44 and 66). While these recommendations should help reduce food aid transportation costs, they will not help achieve the intended objectives for which cargo preference requirements are applied to food aid programs.

### AGENCY COMMENTS ------ Chapter 0:7

GAO obtained written comments on a draft of this report from AID, DOD, USDA, and the Department of Transportation (DOT). These comments are presented and evaluated in chapters 2 and 4, and in appendixes VI through IX. DOT's Maritime Administration said that it was "...troubled by conclusions and implications which are either not supported by verifiable data, or which mischaracterize the issues and factors affecting the conduct of the cargo preference programs." However, the Maritime Administration agreed with GAO's recommendation that it revise the way it calculates allowable freight rates for shipping food aid cargos. AID, DOD, and USDA generally agreed with GAO's conclusions and recommendations and suggested clarifications

which were made where appropriate.

In their written comments, the agencies elaborated on their views of the use of certain ocean transportation contract terms when shipping food aid cargos, which may differ from contract terms used in the commercial sale and shipping of similar cargos and add cost to the transportation of food aid cargos. AID and USDA were particularly concerned about GAO's position on the Maritime Administration's efforts to implement a uniform charter party. A uniform charter party would establish the ocean transportation contract terms to be used by AID and USDA in shipping food aid commodities. AID and USDA said that the uniform charter party would greatly affect their flexibility in negotiating shipping terms with ocean freight transportation companies. GAO clarified that it has not evaluated and is not endorsing the Maritime Administration's proposed uniform charter party. Rather, GAO is recommending that, if the cargo preference program is continued for food aid programs, then AID and USDA should experiment with the use of shipping terms that are more consistent with terms used in similar private sector commercial transportation contracts, to determine whether they would reduce the costs incurred in transporting U.S. food aid cargos, while meeting program objectives.

#### **BACKGROUND**

============= Chapter 1

Requirements to carry U.S. government cargos on U.S.-flag ships, or cargo preference laws, have a long history in the United States. Cargo preference was originally established as part of the Tariff Act of 1789, the second law enacted by the U.S. Congress. This law provided for an additional duty of 10 percent on imports carried on non-U.S. ships. Since then, Congress has repeatedly reaffirmed its intent, in response to general downturns in the U.S. maritime industry, to assist in the development, strengthening, and support of the U.S. merchant marine by enacting many cargo preference laws.\1

Cargo preference laws set aside certain U.S. government cargos to be exclusively carried by U.S.-flag vessels. Cargo preference laws currently require that at least 75 percent of the food provided to needy countries through U.S. food aid programs be transported on U.S.-flag ships. This requirement has been controversial since its inception in 1954. In the view of the U.S. Department of Agriculture (USDA), and the U.S. Agency for International Development (AID), which administer the U.S. food aid programs, cargo preference requirements limit their ability to deliver food aid because of the additional funds needed to ship such aid on U.S.-flag vessels.

On the other hand, maritime interests and MARAD, an agency of the U.S. Department of Transportation (DOT), view the application of cargo preference law to food aid programs as an integral part of U.S. maritime policy. They believe cargo preference is vital to ensuring that adequate U.S.-flag ships and merchant marine personnel are available to respond to national security emergencies and to carry the domestic and foreign waterborne commerce of the United States.

The increased costs associated with using U.S.-flag ships to deliver U.S. food aid received attention in April 1993. At that time, President Clinton announced that \$700 million in agricultural commodity assistance would be provided to Russia to assist its efforts to implement market reforms in the private sector. It was also reported that up to \$200 million of this assistance would be required to pay for the commodities' transportation, up to \$100 million of which would be spent to cover the additional cost of using U.S.-flag ships. Appendix II contains more information on the outcome of this special food aid assistance to Russia.

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\1 The cargo preference laws of the United States are described in appendix I.

CARGO PREFERENCE IS ONE OF SEVERAL PROGRAMS ESTABLISHED TO PROMOTE A VIABLE U.S. MERCHANT MARINE

----- Chapter 1:1

Section 101 of the Merchant Marine Act of 1936\2 required that the U.S. merchant marine be sufficient to carry a substantial portion of the waterborne domestic and foreign commerce of the United States and be capable of serving as a naval and military auxiliary in time of war or national emergency.

To satisfy these two objectives, the act established several programs to support the continued operation of U.S.-flag ships. They include construction subsidies (title V), operating subsidies (title VI), and preference cargos (section 901, as amended). Although no funding has been provided for title V since 1982, the purpose of the title V construction differential subsidy (CDS) program is to enable U.S. shipyards to construct ships at a cost equivalent to that of their foreign competitors and thus enable purchasers to obtain U.S.-constructed ships for foreign trade at competitive world prices. This program is not likely to be funded in the future, as the Clinton administration recently entered into an agreement with the Organization for Economic Cooperation and Development to eliminate government subsidies for shipbuilding by January 1, 1996.

In addition, while title VI operating differential subsidies (ODS) are intended to allow U.S.-flag ships to carry foreign commerce by granting U.S. shipowners a subsidy to place their operating costs on a parity with those of their foreign competitors--based on the difference between the fair and reasonable cost of insurance, maintenance, repair, and wages of officers and crews and the estimated costs of the same items if the ships were operated under a foreign registry--no new ODS contracts have been granted, and all current ODS contracts will have expired by December 1998. The Clinton administration has submitted proposed legislation to Congress that would establish a program similar to ODS to help support U.S.-flag ships providing liner service.

Section 901 of the Merchant Marine Act of 1936, as amended, provides

guaranteed cargos (preference cargos) for U.S.-flag ships by requiring that certain government-owned or financed cargos be shipped on U.S.-flag ships. Cargo preference requirements are applied to 100 percent of military cargos, 75 percent of food aid cargos, and 50 percent of all other U.S. government-owned or financed cargos.

Cargo preference does not play a role in maintaining U.S.-flag ships to carry domestic cargos. All domestic waterborne commerce is reserved for U.S.-flag, U.S.-constructed ships by the Merchant Marine Act of 1920\3 commonly referred to as the "Jones Act," which prohibits foreign-flag ships and foreign-constructed U.S.-flag ships from trading between U.S. domestic ports. In addition, the most current data available from MARAD show that in 1991, U.S.-flag ships only carried about 4 percent of all waterborne commerce imported into or exported out of the United States (foreign commerce). Food aid preference cargos accounted for less than one-fourth of that percentage.

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\2 Ch. 858, 49 Stat. 1985, June 29, 1936 (46 U.S.C. Appx. 1101).

\3 Ch. 250, 41 Stat. 988, June 5, 1920.

## CARGO PREFERENCE LAWS APPLY TO FOOD AID PROGRAMS

------ Chapter 1:2

The Cargo Preference Act of 1954,\4 as amended by the Food Security Act of 1985,\5 amended section 901(b) of the Merchant Marine Act of 1936 to require that at least 75 percent of U.S. food aid tonnage be shipped on privately owned U.S.-flag commercial ships, to the extent that such ships are available at fair and reasonable rates. The applicable food aid programs include those carried out under the Agricultural Trade Development and Assistance Act of 1954,\6 as amended, widely known as "Public Law 480," and under section 416(b) of the Agricultural Act of 1949,\7 as amended. Cargo preference also applies to assistance provided under the Food for Progress program, which was enacted as part of the Food Security Act of 1985.\8

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\4 Ch. 936, 68 Stat. 832, August 26, 1954.

\5 Public Law 99-198, December 23 1985.

\6 Ch. 469, 68 Stat. 454, July 10, 1954.

\7 Ch. 792, 63 Stat. 1051, 1058, October 31, 1949.

\8 Public Law 99-198, December 23, 1985.

U.S. FOOD AID PROGRAMS

----- Chapter 1:3

USDA currently provides food aid through three channels: the Public Law (P.L.) 480 program; the section 416(b) program; and the Food for Progress program. The P.L. 480 program is comprised of three titles that provide agricultural assistance to countries at different levels of economic development. The three primary objectives of these programs are to expand U.S. agricultural exports (title I), to provide humanitarian relief (title II), and to aid the economic development of participating countries (title III). Figure 1.1 shows the percentage of metric tons (mt) of food aid provided under each U.S. food aid program for fiscal years 1991 through 1993.

Figure 1.1: Percentage of Metric Tons of Food Aid Provided Under Each U.S. Food Aid Program, Fiscal Years 1991-93

(See figure in printed edition.)

Source: USDA.

P.L. 480 TITLE I ------ Chapter 1:3.1

P.L. 480's title I, which is administered by the Foreign Agricultural Service (FAS) of USDA and is known as the "Trade and Development Assistance Program," provides U.S. government financing for sales of agricultural commodities to developing countries on "concessional" credit terms. The sales are made at competitive U.S. market prices, with extended credit periods of up to 30 years, low interest rates, and grace periods of up to 7 years on principal repayments. This program is targeted to countries that are having difficulties meeting their food needs through commercial means, yet have demonstrated the potential to become commercial markets for U.S. agricultural commodities. From fiscal year 1991 through fiscal year 1993, USDA extended about \$1.1 billion in credit for the purchase of commodities for title I programs. The types of commodities typically financed under title I include wheat and corn for human consumption, and soybean meal and grains for animal feed.

## P.L. 480 TITLE II ------ Chapter 1:3.2

AID administers title II of the P.L. 480 program. It is known as the "Emergency and Private Assistance Program," and it provides for the donation of agricultural commodities to meet the pressing food needs of the people of developing countries. About 75 percent of the commodities used to meet nonemergency needs are made to and distributed by nonprofit private voluntary organizations (PVO) such as the Cooperative for American Relief Everywhere (CARE) and the Catholic Relief Services, or international organizations such as the World Food Program (WFP), the humanitarian feeding organization of the United Nations. From fiscal year 1991 through fiscal year 1993, over \$2.1 billion in U.S. government funds were used to provide food

and its transportation for title II programs. The type of food aid provided under title II includes some bulk commodities, but generally consists of processed commodities and products such as cooking oil and bagged rice and flour.

### P.L. 480 TITLE III ------ Chapter 1:3.3

Title III\9 of P.L. 480 is administered by AID and is known as the "Food for Development Program." It provides government-to-government donations of agricultural commodities to least developed countries. The revenue that the developing country generates by the sale of these donated commodities is to be used to support economic development programs in the country. Priority is to be given to countries that demonstrate the greatest need for food, the capacity to use food assistance effectively, and a commitment to policies to promote food security. From fiscal year 1991 through fiscal year 1993, over \$670 million in U.S. government funds were used to provide food and its transportation for title III programs. The type of food aid provided under title III includes mainly bulk commodities such as corn, wheat, and rice.

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\9 Before the Food, Agriculture, Conservation, and Trade Act of 1990 (P.L. 101-624, frequently referred to as the 1990 Farm Act) titles I and III were managed together by USDA. The 1990 Farm Act separated the agricultural market development (now title I) and economic development (now title III) objectives of the P.L. 480 program. Both titles are aimed at food aid needs of developing countries, but title I financing is targeted to countries that offer a good chance of becoming commercial markets, while title III is aimed at assisting the least developed countries.

SECTION 416(B)	
	Chapter 1:34

Section 416(b) of the Agricultural Act of 1949, which is administered by USDA's FAS, provides for donations to foreign countries of food and feed commodities owned by USDA's Commodity Credit Corporation. These donations are not permitted to reduce the amounts of commodities that are traditionally donated to U.S. domestic feeding programs, prevent the fulfillment of any agreement entered into under a payment-in-kind program, or disrupt normal U.S. commercial sales of agricultural commodities. From fiscal year 1991 through fiscal year 1993, over \$1.2 billion in U.S. government funds were used to provide food and its transportation for section 416(b) programs. The type of food aid provided under section 416(b) includes bulk commodities such as corn, wheat, and rice, and processed products such as cooking oil and nonfat dry milk.

FOOD FOR PROGRESS		
	Chapter '	1:3.5

The Food for Progress program, which is administered by USDA's FAS, provides commodities to support countries that have made commitments to expand free enterprise in their agricultural economies. Commodities may be provided under the authority of P.L. 480 or section 416(b). Commodities furnished using title I funds may be made available on a grant or a concessional sales basis. From fiscal year 1991 through fiscal year 1993, over \$1.3 billion in U.S. government funds were used to provide food and its transportation for the Food for Progress program. The type of food aid provided under this program includes bulk commodities such as corn, wheat, and rice; and processed products such as cooking oil, flour, and nonfat dry milk.

FOOD AID TONNAGE IS A SMALL PORTION OF ALL U.S. AGRICULTURAL EXPORTS

------ Chapter 1:4

For fiscal years 1991-93, U.S. food aid tonnage represented 6.7 percent of all U.S. agricultural export tonnage. U.S. food aid also represented 18.1 percent of all U.S. agricultural tonnage exported with assistance from the U.S. government. The value of all agricultural commodities exported from the United States for fiscal years 1991 through 1993 totaled \$122.4 billion, with \$98.1 billion, or 80.2 percent, in private sector commercial sales; \$19.2 billion, or 15.7 percent, in government-sponsored credit sales in which financing was provided at "near commercial" rates and terms; and \$5.1 billion, or 4.1 percent, in U.S. food aid programs. Figures 1.2 and 1.3 illustrate the percentage of export tonnage and value that U.S. food aid programs contributed to all U.S. agricultural exports for fiscal years 1991 through 1993.

Figure 1.2: U.S. Agricultural Export Tonnage, Fiscal Years 1991-93

(See figure in printed edition.)

Source: USDA.

Figure 1.3: U.S. Agricultural Export Value, Fiscal Years 1991-93

(See figure in printed edition.)

Source: USDA.

MARAD HAS OVERSIGHT RESPONSIBILITY FOR CARGO PREFERENCE COMPLIANCE AND DETERMINING FAIR AND REASONABLE RATES MARAD is responsible for monitoring federal agencies' implementation of cargo preference laws and reporting annually to Congress on agency compliance. For food aid programs, MARAD reports compliance for each program and by each ship type--bulk carriers, tankers, and those ships that provide liner service. For calendar years 1990 through 1992, MARAD reported that while USDA and AID did not always achieve 75-percent compliance for each program and each type of ship, where they did not comply, it was typically due to the nonavailability of U.S.-flag ships.

In addition to monitoring compliance, MARAD establishes guideline rates that are used in judging whether U.S.-flag shipping rates are fair and reasonable. Setting guideline rates is done because federal agencies are required to use U.S.-flag ships only if they are available at fair and reasonable rates. These guideline rates are developed at the request of the federal agency that is shipping preference cargos. They reflect specific voyage information and individual ship operating and capital costs; estimated port and cargo-handling costs; and an allowance for brokerage expenses, overhead expenses, and profit. In determining guideline rates, MARAD includes the cost of the round-trip voyage, as U.S.-flag ships carrying preference cargos typically return carrying ballast,\10 not cargo. If a U.S.-flag ship is scrapped or sold after it discharges a preference cargo, or obtains a return cargo, the guideline rate is adjusted accordingly.

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\10 Ballast is a heavy substance used to maintain a ship at its proper draft and improve its stability when it is not carrying cargo.

# THE STATUS OF THE U.S. MERCHANT MARINE HAS DECLINED

------ Chapter 1:6

The two principal components of the U.S. merchant marine are (1) a fleet of oceangoing ships and (2) their supporting workforce. The U.S. merchant marine is generally comprised of bulk carriers, tankers, general cargo ships, container ships, and passenger ships. These ships are engaged in providing either charter or liner service. The workforce that supports U.S.-flag ships includes seafaring officers and other seafaring workers, shipyard workers, and longshore workers.

U.S.-FLAG SHIPS ------ Chapter 1:6.1

According to MARAD's 1992 annual report to Congress, as of September 30, 1992, the U.S. merchant marine consisted of a total of 600 ships as shown in table 1.1. The 386 privately owned ships are those that may carry preference cargos.

Table 1.1

U.S. Oceangoing Merchant Marine Fleet as of September 30, 1992

Priv U.Sflag ships	ately Gov owned		Total	
Active fleet Inactive fleet	348 38	11 203	359 241	
Total	386	214	600	

Note: The fleet includes ships of 1,000 or more gross tons, but excludes privately owned tugs and barges.

Source: MARAD.

MARAD also reported that from January 1, 1982, to January 1, 1992, the number of U.S. privately owned ships decreased by 31.4 percent, from 574 ships to 394 ships. And the deadweight tonnage\11 capacity of these ships decreased by 8.4 percent, from 21.5 million tons to 19.7 million tons. As of January 1, 1992, the U.S. privately owned merchant marine ranked 17th in number of ships and 11th in deadweight tons when compared with the world's merchant marine fleets. The five largest merchant marine fleets are registered in Panama (3,040 ships), Liberia (1,550 ships), China (1,359 ships), Cyprus (1,210 ships), and Japan (944 ships).

The U.S.-flag privately owned merchant marine fleet is engaged in providing either charter or liner service to transport goods. When providing charter service, a ship is contracted by the exporter or importer to transport goods from one point to another. The ships that typically provide charter service are bulk carriers, tankers. and tug/barge combinations capable of carrying bulk goods. U.S. food aid programs generally use charter service to transport bulk commodities such as wheat or corn from the United States to needy foreign countries. Ships engaged in providing liner service offer exporters or importers a set schedule of arrivals and departures at specified ports in regions of the world. The type of ships typically used to provide liner service are container ships, which carry 20- or 40-foot containers, or LASH ships\12 that carry watertight barges. Ships engaged in providing liner service, no matter what the ship type is, are commonly referred to as "liners." U.S. food aid programs generally use liners to transport processed or packaged commodities such as bagged rice or flour.

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<sup>\11</sup> Deadweight tonnage is the total carrying capacity of a ship expressed in tons of 2,240 pounds. Carrying capacity is the difference between the displacement of the empty ship and the displacement of the ship fully loaded.

<sup>\12</sup> LASH is an acronym for lighter-aboard-ship vessels.

### U.S. MERCHANT MARINE WORKFORCE

------ Chapter 1:6.2

In fiscal year 1992, the average monthly U.S. seafaring employment decreased 11.3 percent, from 16,308 in fiscal year 1991 to 14,466. In addition, the average monthly workforce in U.S. commercial shipyards and longshore employment also decreased during that time. Table 1.2 summarizes the average monthly maritime workforce for fiscal years 1991 and 1992.

#### Table 1.2

U.S. Merchant Marine Average Monthly Workforce, Fiscal Years 1991 and 1992

Type of work	FY 1991	FY 1992	
Seafaring shipboard jobs Commercial shipyard jobs Longshore jobs	16,30 93,9 26,698	,	
Total 1:	36,988 <i>-</i>	======== 130,556	
Source: MARAD.			
U.S. MERCHANT MARIN PARTICIPATION IN FOO PROGRAMS			

From cargo preference years\13 1991 through 1993, 144 privately owned U.S.-flag ships carried food aid preference cargos. These 144 ships included 99 liners, 25 tankers, and 20 bulk carriers. In addition, 71 tug/barge combinations, which MARAD does not include in its count

------ Chapter 1:7

U.S.-flag ships, also carried food aid preference cargos during this time. These privately owned U.S.-flag ships and tug/barge combinations carried about 17.1 million tons of food aid from cargo preference years 1991 through 1993. As illustrated by figure 1.4, the majority (84 percent) of food aid tonnage transported by U.S.-flag ships was carried by those capable of carrying bulk commodities--bulk carriers, tug/barge combinations, and tankers.

Figure 1.4: Food Aid Tonnage Carried by Type of U.S.-Flag Ship, Cargo Preference Years 1991-93

(See figure in printed edition.)

Note: Total metric tons carried during this 3-year period were 17.1 million.

Source: USDA food aid shipment database.

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\13 The cargo preference year spans from April 1 of one year to March 31 of the next year and was created to measure compliance of food aid cargos with the cargo preference requirements spelled out in the Food Security Act of 1985. The act required that the amount of food aid tonnage transported on U.S.-flag ships be gradually increased from 50 percent of all food aid tonnage shipped in 1985 to 75 percent by April 1988. The act also required MARAD to fund the additional cost of using U.S.-flag ships--the ocean freight differential (OFD)--for the additional 25 percent of food aid shipped on U.S.-flag ships.

OBJECTIVES, SCOPE, AND METHODOLOGY

------ Chapter 1:8

At the request of the Chairman of the Subcommittee on Merchant Marine, Senate Committee on Commerce, Science, and Transportation, and the Chairman of the Subcommittee on Foreign Agriculture and Hunger, House Committee on Agriculture, we reviewed the application of cargo preference laws to U.S. food aid programs. In discussions with their offices, we agreed to determine

whether the application of cargo preference requirements to food aid programs is meeting its intended objectives of helping to maintain U.S.-flag ships (1) to serve as a naval and military auxiliary in time of war or national emergency and (2) to carry a substantial portion of U.S. waterborne domestic and foreign commerce.

how cargo preference requirements affect U.S. food aid programs, and

how practices currently used by USDA and AID in managing food aid transportation affect its costs.

In addition, we were asked to develop information on the status of food aid being provided to Russia under the Food for Progress program and on why U.S.-flag ship transportation costs for agricultural commodities to Israel under the "side letter agreement" are lower than similar voyages made under U.S. food aid programs to the former Soviet Union. This information is provided in appendixes II and III, respectively.

Our review considered information and agency data for fiscal years 1991 through 1993.

We did our work at the Washington, D.C., offices of AID, the Department of Defense (DOD), MARAD, and USDA as well as the New York offices of several international shipping brokers, the World Food Program, CARE, and the Catholic Relief Services. At these agencies

we obtained and reviewed pertinent documents including correspondence, regulations, procurement files, and reports. In addition, we developed and used a structured interview instrument to collect standardized information from 18 U.S. shipping companies. All these companies either owned or operated U.S.-flag ships that carried food aid preference cargos sometime during cargo preference years 1991 through 1993. These 18 companies were judgmentally selected to cover a majority of food aid tonnage carried during this time and to represent a cross-section of the companies engaged in carrying these cargos. These 18 companies include the 10 companies that carried the most bulk food aid tonnage from cargo preference years 1991 through 1993, and 5 liner companies and 3 smaller bulk companies suggested by MARAD. Together these 18 companies carried over 81 percent of the U.S. food aid tonnage shipped during this time. A copy of our U.S. shipowner structured interview instrument is reproduced in appendix IV.

To determine whether the application of cargo preference requirements to food aid programs helped maintain a viable U.S. merchant marine for times of war or national emergency, we obtained the views of cognizant DOD officials, including representatives of the Military Sealift Command. In response to our questions, the Assistant Deputy Under Secretary of Defense for Transportation Policy expressed DOD's official view on this matter in a March 17, 1994, memorandum. Because this is the first such definitive statement made by DOD on this matter, a copy of this memorandum is reproduced in appendix V of this report.

To determine whether the application of cargo preference to food aid programs helps maintain a viable U.S. merchant marine that can carry a significant portion of the U.S.' domestic and foreign commerce, we used responses from our structured interview to establish how dependent each participating U.S.-flag ship was on food aid preference cargos and how the ships would be affected by a modification in or the elimination of the application of cargo preference requirements to food aid programs. We also used the structured interview to determine whether U.S.-flag ships could compete for foreign commercial cargos and what items affect their costs. In addition, we interviewed MARAD officials and international ship brokers to understand the differences between the U.S. shipping market and the international shipping market.

To determine how cargo preference requirements affect food aid programs, we obtained the views of USDA, AID, PVO, and World Food Program officials, examined food aid commodity and freight procurement files and other agency records, and observed USDA and AID officials procure food aid commodities and their transportation. To develop examples of how cargo preference requirements affect food aid purchasing decisions, we examined a sample of commodity and freight procurement files judgmentally selected by USDA and AID officials. These files were selected to illustrate each of the significant ways food aid programs were affected by cargo preference requirements that we identified.

To determine whether USDA and AID's management practices affect food aid transportation costs, we examined (1) the use of shipping contract terms that are not considered commercial by the shipping

industry and (2) the timing of food aid purchases and shipments. Through the structured shipowner interview and interviews with USDA, AID, PVOs, and MARAD officials, and international ship brokers, and our review of commercial and food aid shipping contracts, we identified the differences between typical international commercial contracts and food aid contracts for shipping bulk agricultural commodities. We discussed these differences with USDA, AID, MARAD, and international ship brokers to understand why these differences exist and their impact on transportation costs.

We also analyzed USDA's food aid shipment database to determine how shipping rates are affected by the timing of food aid shipments. We discussed our analysis with USDA and AID officials to obtain their views on why a majority of food aid is shipped at the end of the calendar year. We did not assess the reliability of the information contained in the database but did corroborate some of its information with information from other sources to determine whether its accuracy was reasonable. USDA officials said that the information included in USDA's food aid shipment database is the best and most complete available on food aid shipments and is used by USDA for external reporting purposes.

We did our work between August 1993 and July 1994 in accordance with generally accepted government auditing standards. We obtained written comments on a draft of this report from AID, DOD, USDA, and DOT (MARAD). These comments are presented and evaluated in chapters 2 and 4, and in appendixes VI through IX.

APPLYING CARGO PREFERENCE REQUIREMENTS TO FOOD AID PROGRAMS DOES NOT SIGNIFICANTLY FURTHER OBJECTIVES OF 1936 MERCHANT MARINE ACT

======= Chapter 2

Cargo preference requirements are applied to food aid programs to help meet the objectives of the Merchant Marine Act of 1936, as amended. While these requirements produce several benefits, as explained in chapter 1, the objectives of the act are to maintain a U.S.-flag merchant marine to serve as a military or naval auxiliary in times of war or national emergency and to carry a substantial portion of the waterborne domestic and foreign commerce of the United States. The types of U.S.-flag ships that carry a majority of food aid tonnage and are most dependent on food aid preference cargos to maintain their U.S. flag status are those bulk carriers, tankers, and tug/barge combinations that transport bulk commodities. DOD currently does not consider these types of ships militarily useful. In addition, most of these same U.S.-flag ships are virtually dependent on food aid preference cargos, are unable to successfully compete for foreign commercial cargos, and do not contribute to the ability of the United States to carry its own foreign commerce other than food aid. This situation is due to the limited options available to operate U.S.-flag ships and to U.S.-flag shipping rates that are significantly higher than their foreign competitors'. These higher rates reflect the additional construction, maintenance, and operating costs caused by the U.S. laws and regulations that

shipowners must comply with to be U.S. flagged, and the reduced incentives for shipowners who primarily carry food aid preference cargos to lower their costs by investing in newer and more efficient ships.

APPLYING CARGO PREFERENCE REQUIREMENTS TO FOOD AID PROGRAMS DOES LITTLE TO HELP MAINTAIN A U.S. MERCHANT MARINE AS MILITARY AND NAVAL AUXILIARY

------ Chapter 2:1

According to DOD, while the types of U.S.-flag ships that carry a majority of food aid preference cargos may have been militarily useful at one time, it does not view them as militarily useful now. DOD officials explained that this view has changed because of their changing national security needs, the shift in the shipping industry to the use of containers, and the increase in the size and weight of their equipment. The ships that carry a majority of food aid preference cargos include the bulk carriers, tankers, and tug/barge combinations that transport bulk commodities and that carried 84 percent of all food aid tonnage shipped on U.S.-flag ships for cargo preference years 1991 through 1993. According to DOD, if the U.S.-flag ships that carry bulk commodities were no longer available, which would likely happen if cargo preference requirements were no longer applied to food aid programs, DOD believes there would be no significant impact on military readiness. However, DOD does consider liners to be militarily useful, since the containers used on liners are an efficient way to transport ammunition, equipment, and supplies. For cargo preference years 1991 through 1993, liners carried approximately 16 percent of all food aid tonnage transported by U.S.-flag ships.

DOD's view on the military usefulness of the ships that carry cargo preference food aid was confirmed by the military sealift activities of U.S.-flag ships associated with Operations Desert Shield/Desert Storm. According to DOD, none of the bulk carriers, tankers, or tug/barge combinations that have carried food aid preference cargos participated in Operations Desert Shield/Desert Storm because they were not the most appropriate type of ships to transport required equipment and supplies. The U.S.-flag ships that participated in Operations Desert Shield/Desert Storm were those that are typically engaged in liner service, and roll-on/roll-off (RORO) ships.\1 DOD officials explained at a GAO workshop\2 on Ready Reserve Force (RRF)\3 crewing requirements that DOD is increasing its reliance on the types of ships that provide liner service as it increases its use of containerization.

As for crews, DOD said that the crews used to support the bulk-carrying ships that transported the majority of food aid tonnage could be a potential source of manpower for the RRF but DOD does not believe that applying cargo preference to food aid programs is a cost-effective means of providing for crews. According to DOD, current RRF crew requirements are approximately 3,700 mariners but should increase to about 4,800 mariners as the number of ships in the

RRF increase. DOD's currently policy is to fill this need from the pool of U.S. merchant mariners. There are currently about 21,000 merchant mariners in the labor pool available for approximately 9,300 shipboard jobs (each shipboard job supports about 2.2 merchant mariners). According to information provided by the Maritime Administration, the dry bulk ships in the U.S. merchant marine provide employment for about 800 mariners, or less than 4 percent of the 21,000 mariners that are currently in the merchant marine labor pool. Given the size of the merchant marine pool and the estimated need for the RRF, it does not appear there should be a labor supply problem for the RRF in the near future, even if the crew supported by the ships that carry the majority of food aid tonnage are not counted. Nevertheless, the size of the labor pool has been steadily declining over the years as the number of U.S.-flag ships has decreased.

DOD also recognizes that as the number of U.S.-flag commercial ships, and their crew, continue to decrease and the number of ships in the RRF increase, it may need to consider options such as a merchant marine reserve program to ensure that adequate crew are available for the RRF in the future.

MARAD officials disagree with DOD's assessment of its need for the types of ships that carry bulk commodities and the crews supported by food aid preference cargos. MARAD believes that food aid preference cargos are very important to the support of a significant number of U.S.-flag ships and crews that they view as militarily useful because they were built to DOD specifications in order to fulfill some military purpose. DOD officials agreed that the ships in question could be used for military purposes. However, they also said that given their current needs, these ships would only be used as a last resort to transport military equipment because (1) the ships would require a substantial investment to modify them to carry military supplies and heavy equipment and (2) the ships are not self-sustaining in that additional gear would be required for loading and unloading the military cargos, and loading and unloading could only be done in modern ports where such gear is available. In addition, while DOD recognizes it may have a need for additional crews for the RRF in the future, it does not believe that supporting U.S.-flag ships through a food aid cargo preference program is the most efficient way to provide for this need.

\4 BOBO | |

<sup>\1</sup> RORO ships are used to transport motorized vehicles and wheeled containers and trailers and are designed so that no gear is required for loading and unloading cargo.

<sup>\2</sup> Strategic Sealift: Summary of Workshop on Crewing the Ready Reserve Force (GAO/NSIAD-94-177, June 6, 1994).

<sup>\3</sup> The Ready Reserve Force is a specific component of the National Defense Reserve Fleet. Ships in the Ready Reserve Force are kept at a state of readiness that enables them to be activated in 4, 5, 10, or 20 days to meet military sealift surge requirements in event of war or emergencies. MARAD maintains these ships for DOD use.

APPLYING CARGO PREFERENCE REQUIREMENTS TO FOOD AID PROGRAMS DOES NOT SIGNIFICANTLY CONTRIBUTE TO THE ABILITY OF U.S. -FLAG SHIPS TO CARRY FOREIGN COMMERCE

------ Chapter 2:2

### THE DEPENDENCE OF U.S.-FLAG SHIPS ON FOOD AID PREFERENCE CARGOS VARIES

------ Chapter 2:2.1

The Jones Act restricts domestic waterborne commerce to U.S.-constructed, U.S.-flag ships and ensures that U.S.-flag ships carry all the domestic waterborne commerce of the United States. Operating differential subsidies help U.S.-flag ships carry foreign commerce by placing their operating costs on a parity with those of their foreign competitors. Preference cargos also help U.S.-flag ships carry foreign commerce by guaranteeing them a certain percentage of government cargos. However, even with the support provided through these programs, in 1991 U.S.-flag ships carried only about 4 percent of all waterborne commerce imported into or exported from the United States, i.e., foreign commerce. Food aid preference cargos accounted for less than one-fourth of that percentage. Nevertheless, some types of U.S.-flag ships are heavily dependent on food aid preference cargos.

The types of U.S.-flag ships that carry the majority of food aid preference tonnage on average spend more than half of their time transporting food aid preference cargos. The 18 bulk carriers, 25 tankers, and 21 tug/barge combinations that were either owned or operated by the 18 shipping companies we interviewed, and that carried food aid preference cargos, carried 66 percent of all food aid tonnage transported by U.S.-flag ships for cargo preference years 1991 through 1993. During this time, these ships spent an average of 187 days each year carrying food aid preference cargos. The average number of days spent carrying food aid preference cargos varied by ship type--272 days for bulk carriers, 183 days for tug/barges, and 131 days for tankers.

Besides carrying food aid preference cargos, these ships carried amounts of commercial cargos that also varied by ship type. These commercial cargos were either domestic cargos transported by Jones Act ships or foreign cargos transported by U.S.-flag ships under ODS contracts. The ODS contracts helped the U.S.-flag ships to be more price competitive by subsidizing their higher insurance, maintenance, repair, and wage expenses. The 18 bulk carriers owned or operated by the shipping companies we interviewed, on average carried commercial cargos about 4 percent of the time. The 21 tug/barge combinations owned or operated by the shipping companies we interviewed transported commercial cargos on average about 30 percent of the time. These were primarily domestic commercial cargos carried within the Gulf of Mexico or transported to Puerto Rico. The 25 tankers owned or operated by the shipping companies we interviewed that

carried food aid preference cargos also carried commercial cargos on average 62 percent of the time. All but 1 of these 25 tankers either carried foreign commercial cargos with an ODS contract or was a Jones Act tanker and carried domestic commercial cargos.

The shipping companies we interviewed that operate tankers with ODS contracts said they generally use food aid preference cargos to fill in when they are unable to get foreign commercial cargos. For example, they often carry food aid preference cargos from the United States and return with a traditional tanker cargo, such as oil or other petroleum products, with the help of their ODS contract. Additionally, they explained that as ODS contracts for U.S.-flag tankers are expiring, tankers have become and will become more dependent on food aid preference cargos to continue operating as U.S.-flag ships. When U.S.-flag ships under ODS contracts, except liners,\4 are contracted to carry food aid preference cargos, they may not collect ODS subsidies.

Jones Act tankers, which are ineligible for ODS contracts, also use food aid cargos to fill in when they are unable to get domestic cargos. Since U.S.-flag ships that carry domestic cargos under the Jones Act are too costly to operate to successfully compete for foreign commercial cargos, they do not contribute to the ability of the United States to carry its foreign commerce.

U.S.-flag ships that provide liner service also carry some food aid tonnage but are able to successfully compete for foreign commercial cargos because they either operate with ODS contracts, operate as part of an ocean liner conference,\5 or do both. Ninety-nine U.S. liners transported only 16 percent of all food aid tonnage carried by U.S.-flag ships for cargo preference years 1991 through 1993. Ninety-five of these liners were either owned or operated by shipping companies we interviewed, and 88 of these 95 liners, which carried food aid preference cargos, transported 15 percent of all food aid tonnage carried by U.S.-flag ships during this period. In addition, for a majority (about 75 percent) of these 88 liners, food aid preference cargos made up no more than 4 percent of their cargos. For the others, food aid preference cargos made up between 5 percent and 40 percent of their cargos. In addition to food aid preference cargos, these 88 liners carried other U.S. government preference cargos, or domestic or foreign commercial cargos.

To determine the importance of food aid preference cargos to U.S.-flag ships, we asked the 18 shipping companies we interviewed what might happen to their U.S.-flag ships that carry these cargos if cargo preference were no longer applied to food aid programs. They responded as follows:

None of the 18 U.S.-flag bulk carriers would remain U.S. flagged due to their heavy dependency on food aid preference cargos.

Fourteen of the 25 U.S.-flag tankers would remain U.S. flagged because they can either carry Jones Act cargos or foreign commercial cargos with an existing ODS contract.

Nine of the 21 U.S.-flag barges would remain U.S. flagged because they can carry Jones Act cargos.

In addition, the owners we met with who controlled the majority of 88 U.S.-flag ships that provided liner service explained that because food aid preference cargos represent such a small portion of their total cargos, the deletion of food aid preference cargos alone would have little impact on the status of their U.S.-flag ships. They said, however, that given that (1) their current ODS contracts are expiring and (2) the availability of future operating subsidies is uncertain, they are now considering reflagging as many as 54 of their 88 ships. They said the remaining 34 ships that would continue to fly the U.S. flag could be supported by carrying either Jones Act cargos or foreign commercial cargos under existing ODS contracts.

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\4 U.S.-flag liners with ODS contracts may carry food aid preference cargos and still receive their ODS subsidy because food aid cargos typically represent such a small portion of the total cargo.

\5 Liner companies that serve the United States may be members of cartels, called "ocean freight-rate conferences." Members of such conferences often have agreements on (1) the freight rates they charge (as a way to restrict competition), (2) their sailing schedules and ports of call, and (3) the pooling of cargos or revenues. Conferences that serve the United States must file tariffs with the Federal Maritime Commission that state their rates, terms, and conditions of transport covering all commodities they propose to carry for the general public.

U.S.-FLAG RATES ARE SUBSTANTIALLY HIGHER THAN FOREIGN- FLAG RATES FOR FOOD AID PREFERENCE CARGOS

------ Chapter 2:2.2

U.S.-flag ships have difficulty competing for international commercial cargos because their rates are substantially higher than those of their foreign-flag competitors. For food aid preference cargos, U.S.-flag rates can be as much as twice foreign-flag rates. When food aid cargos are shipped on U.S.-flag ships, the difference between U.S.-flag and foreign-flag rates is paid by USDA, AID, and MARAD. Chapter 3 provides more information on the difference between U.S.-flag and foreign-flag shipping rates for food aid cargos. This difference is called the ocean freight differential.

Recognizing that U.S.-flag shipping rates would be higher than foreign-flag shipping rates, the law only requires federal agencies to use U.S.-flag ships if they are available at "fair and reasonable" rates. U.S.-flag shipping rates for food aid preference cargos are considered fair and reasonable if they are within MARAD's guideline rates. As described in chapter 1, MARAD establishes these guideline rates for ships carrying bulk commodities based on individual ship cost information and specific voyage information. Ships that provide liner service and carry processed goods for food aid programs are paid their tariff rates, which are filed with, and approved by, the U.S. Federal Maritime Commission. According to MARAD officials,

these approved rates are inherently fair and reasonable. Yet, in many cases, these approved rates for U.S.-flag liners are still higher than rates obtainable from foreign-flag ships providing liner service.

Figure 2.1 illustrates the differences between U.S.-flag and foreign-flag shipping rates by ship type for food aid preference cargos shipped for cargo preference years 1991 through 1993.

Figure 2.1: Average U.S.-Flag and Foreign- Flag Shipping Rates per Metric Ton for U.S. Food Aid Cargos by Ship Type, Cargo Preference Years 1991-93

(See figure in printed edition.)

Notes: No foreign-flag tug/barge combinations were used for U.S. food aid cargos during this time.

Average shipping rates reflect per ton weighted averages.

Source: USDA food aid shipment database.

The primary reason why U.S.-flag shipping rates are so much higher than those of their foreign competitors is the added costs U.S.-flag ships incur in complying with U.S. laws and regulations. While the benefits that accrue from these U.S. laws and regulations--U.S. citizen employment, protection of the environment, and support of U.S. shipyards--can be significant, their cost impedes the competitiveness of U.S.-flag ships. This fact was cited in the responses we received from the 18 shipping companies we interviewed, as well as in discussions we held with MARAD officials and international ship brokers. In fact, 16 of the 18 shipping companies we interviewed told us that having to comply with U.S. laws and regulations is so costly that they cannot compete with foreign-flag ships. According to these shipping companies, the requirements in U.S. laws and regulations that have the greatest impact on their shipping rates are ship construction, ship maintenance and repair, and crewing requirements.

SHIP CONSTRUCTION
REQUIREMENTS
------ Chapter 2:2.3.1

To support the U.S. shipbuilding industry, U.S.-flag ships must be constructed in a U.S. shippard in order to carry domestic cargos under the Jones Act. A further incentive to construct U.S.-flag ships in U.S. shippards is the exclusion of foreign constructed

U.S.-flag ships from carrying preference cargos for 3 years. Several of the shipping companies we interviewed stated that due to the cost of U.S. wages and the physical condition of U.S. shipyards, building a ship in a U.S. shipyard is about twice as expensive as building it in a foreign shipyard. In addition, to be registered as a U.S.-flag ship, whether built in a U.S. or foreign shipyard, ships must be constructed to U.S. Coast Guard standards. These standards are more stringent than international standards and thus add to ship construction costs. Foreign-flag ships, which carry 96 percent of U.S. waterborne foreign commerce into and out of U.S. ports and territorial waters, are generally built to international standards in foreign shipyards at a much lower cost. Twelve of the 18 shipping companies we interviewed stated that ship construction costs greatly increased their total costs. Since the early 1980s, no newly constructed U.S.-flag ships have entered the food aid cargo preference trade.

U.S.-FLAG SHIP MAINTENANCE AND REPAIR REQUIREMENTS

------ Chapter 2:2.3.2

To increase the use of U.S. shipyards, U.S.-flag shipowners are encouraged to use U.S. shipyards for maintenance and repair. If they use a foreign shipyard for any maintenance or nonemergency repair work, they must pay a 50-percent U.S. Customs duty on the cost of the work performed. Eleven of the 18 shipping companies we interviewed stated that these requirements greatly affect their operating costs. According to the shipping company officials we interviewed, despite the added costs these requirements are not helping U.S. shipyards. In many instances, shipping companies find it less expensive to use foreign shipyards to maintain and repair their U.S.-flag ships and pay the 50-percent duty than to have the same work performed in U.S. shipyards. However, the duty is a cost that owners of foreign-flag ships do not incur.

## U.S. CITIZEN CREWS ------ Chapter 2:2.3.3

U.S.-flag ships are required to employ crews composed of U.S. citizens. Sixteen of the 18 shipping companies we interviewed stated that the requirement to use U.S. citizen crews is one of the most costly components in operating a U.S.-flag ship. These crews have wages and benefits that generally far exceed those provided to crews of foreign-flag ships. For example, according to a November 1993 article in the Journal of Commerce, monthly crew costs for a U.S.-flag liner can top \$310,000, with the captain receiving \$44,000 a month in wages and benefits. A similar foreign-flag ship spends about \$100,000 a month for its crew, with the captain receiving about \$10,000. In addition, the shipping companies we interviewed who have foreign-flag ships similar to the U.S.-flag ships they use to carry food aid preference cargos stated that the daily crew costs for their U.S.-flag ships are at least three times that of their foreign-flag ships. Moreover, many of these 16 shipping companies said that health insurance, retirement, and other benefits required for U.S.

citizen crews cost almost as much as the wages paid to these crews.

INCENTIVES FOR U.S.
SHIPOWNERS WHO CARRY FOOD
AID PREFERENCE CARGOS TO
REDUCE COSTS ARE LIMITED

------ Chapter 2:2.4

In addition to the high compliance costs imposed on U.S.-flag ships by U.S. laws and regulations, little incentive exists to encourage the shipowners who carry food aid preference cargos to reduce their costs, and therefore their shipping rates, by investing in new U.S.-flag ships. In fact, U.S. shipowners are faced with two large disincentives to invest in new U.S.-flag ships. These are (1) the requirement for foreign-built ships to be documented as U.S.-flag ships for 3 years before they are eligible to carry preference cargos and (2) MARAD's method of using individual ship costs to calculate fair and reasonable guideline rates.

### FOREIGN BUILT U.S.-FLAG SHIPS MUST WAIT 3 YEARS

------ Chapter 2:2.4.1

The Merchant Marine Act of 1936, as amended, states that all privately owned U.S.-flag commercial ships are eligible to carry preference cargos unless they are built or rebuilt outside of the United States or documented under any foreign registry. If either of these conditions applies, the ship must be documented under the laws of the United States for 3 years before it is eligible to carry preference cargos. This requirement discourages U.S. shipowners from investing in new ships. If a U.S. shipowner were to purchase a foreign-built or rebuilt bulk carrier, it would be almost impossible to operate that ship as a U.S.-flag ship for 3 years without food aid preference cargos because their costs would be too high to be price competitive against foreign-flag competition. In addition, while this requirement should have the effect of helping to maintain U.S. shipyards, that has not been accomplished. U.S. shipowners reported that they are discouraged from constructing new bulk carriers in U.S. shipyards because, as several of the shipowners we interviewed explained, their cost is at least twice that of a similar ship constructed in a foreign shipyard. Therefore, U.S. shipowners said they have not been investing in either U.S. or foreign-built new bulk carriers to carry food aid cargos.

In 1981, however, the Merchant Marine Act of 1936 was amended to allow an exception until September 30, 1983, to this 3-year requirement. Under this exception, ships constructed in foreign shipyards were permitted to be considered built in U.S. shipyards for the purpose of carrying preference cargos. This exception was granted due to a lack of funding for the construction differential subsidy program, which provided funds to help offset the additional costs associated with constructing ships in U.S. shipyards. Under this limited exception, seven U.S.-flag foreign-built bulk carriers began carrying food aid preference cargos in the early 1980s. As a result of the entry of these new ships, in 1990 we reported that the

### average OFD cost per metric ton had decreased by 50 percent.\6

Since the early 1980s, no newly constructed ships have entered the food aid preference cargo trade. As a result of the limited number of U.S.-flag bulk ships available, combined with the requirement that at least 75 percent of food aid tonnage be shipped on U.S.-flag ships, more old U.S.-flag tankers and U.S.-flag tug/barge combinations have entered the food aid cargo preference trade. This is especially true for tankers whose ODS contracts have expired. These new entrants are typically not the most cost-efficient and have resulted in increased shipping costs for U.S. food aid programs. For example, according to a MARAD official, if a shipowner has a 25-year-old tanker that can no longer compete for foreign commercial cargos because it no longer has an ODS contract, cargo preference requirements enable the shipowner to continue to operate this inefficient ship because it is U.S. flagged.

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\6 Cargo Preference Requirements: Their Impact on U.S. Food Aid Programs and the U.S. Merchant Marine (GAO/NSIAD-90-174, June 19, 1990).

MARAD'S GUIDELINE RATES ARE BASED ON ACTUAL SHIP COSTS

------ Chapter 2:2.4.2

To ensure that U.S.-flag rates are fair and reasonable, MARAD calculates a guideline rate for each U.S.-flag ship food aid preference voyage. To calculate a guideline rate, MARAD uses actual cost data for the U.S.-flag ship planning the voyage, estimates port and cargo-handling costs based on the past experiences of U.S.-flag ships, and provides an allowance for brokerage expenses and overhead. In addition, MARAD builds in a profit factor based on a 5-year average of the profitability of Fortune's top 50 U.S. transportation companies. For 1993, this profit factor was about 13 percent. Guideline rates are only calculated for ships chartered to carry bulk commodities. Ships that provide liner service are paid their tariff rates, which, according to MARAD officials, are inherently fair and reasonable.

MARAD's guideline rates represent the ceiling for what is considered fair and reasonable. For the majority of food aid preference cargo voyages, the actual shipping rate paid to the U.S. shipowner is below MARAD's calculated guideline rates. In fact, for 1993 the actual shipping rates paid to U.S. shipowners whose ships carried bulk commodities averaged 85 percent of their MARAD-calculated guideline rates. For tug/barge combinations and tankers, this average was 80 percent, and for bulk carriers it was 94 percent.

Since guideline rates are based on actual costs for each individual ship, they reduce the incentives for ships to become more efficient. According to MARAD officials, the percentage of profit allowed under guideline rates is the same for all U.S.-flag ships regardless of their efficiency. While we were told that the more efficient ships

will always get food aid preference cargos before less efficient ships, the limited number of U.S.-flag ships available means that when the demand is high, cargos are available for the less efficient U.S.-flag ships. This situation results in the food aid programs paying higher shipping rates since less efficient ships are more costly.

To reward efficient U.S.-flag ship operators and eventually force inefficient U.S.-flag operations out of the food aid cargo preference trade, MARAD officials and many of the U.S. shipping companies we interviewed advocated modifying how MARAD calculates its guideline rates. They suggested averaging operating costs for ships of similar sizes and using that average cost to calculate guideline rates, rather than using actual costs for each individual ship. They explained that over time, averaging guideline rates will lower U.S. shipping rates for food aid preference cargos. MARAD officials also said that rate averaging should only be implemented if foreign-built ships are allowed to enter the trade to take the place of the inefficient operators that are forced out of the program.

## CONCLUSIONS ------ Chapter 2:3

The U.S.-flag ships that are most dependent on food aid preference cargos are not currently viewed as militarily useful by DOD. While the crews that support those ships could be used to help crew the RRF, DOD does not believe that providing for such crews through the food aid cargo preference program is the most cost-effective means. In addition, food aid preference cargos do not contribute to ensuring U.S.-flag ships carry a substantial portion of either U.S. domestic or foreign waterborne commerce. All domestic waterborne commerce is already reserved for U.S.-flag ships by the Jones Act, and food aid preference cargos account for a very small portion (less than 1 percent) of all waterborne foreign commerce. Therefore, the application of cargo preference requirements to food aid programs contributes little to helping achieve the objectives of the Merchant Marine Act of 1936, as amended.

Furthermore, the U.S.-flag ships that DOD currently views as militarily useful--those that provide liner service--are either supported by Jones Act trade or are largely dependent upon ODS contracts, which are expiring, to successfully compete for foreign commercial cargos because their costs are substantially greater than their foreign competitors. The higher costs of U.S.-flag ships are primarily due to U.S. laws and regulations that increase U.S.-flag ships' construction, maintenance and repair, and operating costs. In addition, U.S. shipowners are discouraged from taking the necessary steps to reduce their costs by investing in new ships because it is possible to successfully operate inefficient ships in the food aid cargo preference trade.

One way to give U.S. shipowners incentives to invest in more efficient ships would be to waive the 3-year waiting period currently imposed on cargo preference eligibility for foreign-built U.S.-flag ships. Congress, in effect, waived this requirement for a short period in the early 1980s. A result was new ships entering the

market and a decrease in operating costs.

## MATTERS FOR CONGRESSIONAL CONSIDERATION

------ Chapter 2:4

If Congress continues to support the objectives for which cargo preference is applied to food aid programs and is willing to continue to devote resources to that end, Congress may wish to consider a more efficient alternative for achieving those objectives. For example, a program like the current ODS program, which will be expiring by 1998, could be used to support those ships, and their crews, that DOD finds militarily useful and that could also successfully compete for U.S. foreign commercial cargos.

If Congress decides to continue to apply cargo preference to food aid programs, it may wish to consider giving U.S. shipowners incentives to invest in more efficient ships in order to reduce food aid transportation costs. One possible incentive would be to allow new, foreign-built, U.S.-flag ships to immediately participate in the food aid cargo preference trade.

### RECOMMENDATION ------ Chapter 2:5

If Congress chooses to continue the application of cargo preference laws to food aid programs and acts to permit U.S.-flag foreign-built ships to immediately carry food aid preference cargos, we recommend that the Secretary of Transportation instruct the Administrator of the Maritime Administration to promote the efficiency of the ships that carry food aid preference cargos. One way this can be done is by changing the method of calculating guideline rates so that "average" operating costs for all similar-sized ships, instead of "actual" operating costs for each individual ship, are considered. While implementing this change will not help the application of cargo preference laws to food aid programs achieve its intended objectives, it should reduce food aid transportation costs.

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MARAD said that it was "...troubled by conclusions and implications which are either not supported by verifiable data, or which mischaracterize the issues and factors affecting the conduct of the cargo preference programs." Regarding our conclusions in this chapter, MARAD disagreed that U.S.-flag shipowners that participate in the food aid cargo preference programs are discouraged from improving the efficiency of their shipping operations. MARAD's views are that "U.S.-flag shipowners do not lack incentives to lower costs, regardless of whether they carry commercial or preference cargo. Any owner operating in a high capital cost, competitive and highly critical market has substantial incentives to lower costs." As a general statement applicable to the shipping industry at large, we

agree with MARAD's views. However, we continue to believe that in the specific case of U.S.-flag shipowners who transport food aid preference cargos, those U.S.-flag shipowners have little incentive for reducing their costs because they are guaranteed by law to obtain 75 percent of the cargo tonnage. The main cost-controlling factor under this circumstance is the upper-limit rates that the shipowners can charge (guideline rates) that are calculated by MARAD based on the actual operating expenses of the individual U.S.-flag ships.

Despite MARAD's comments on incentives, MARAD agreed with our recommendation to promote the efficiency of the ships that carry food aid cargos. MARAD said that averaging costs for similar-sized ships or developing some other efficiency standard could reduce guideline rates and has testified to Congress that it would consider a change in the method of calculating guideline rates.

AID, DOD, and USDA generally agreed with our conclusions and recommendation in this chapter and offered clarifications which we made where appropriate.

CARGO PREFERENCE REQUIREMENTS ADVERSELY AFFECT U.S. FOOD AID PROGRAMS

------Chapter 3

Applying cargo preference laws to food aid programs requires that at least 75 percent of food aid commodity tonnage be shipped on U.S.-flag ships, to the extent that such ships are available at fair and reasonable rates. Each food aid program experiences some adverse impacts from complying with these laws. The most significant impact is the additional cost associated with shipping food aid on U.S.-flag ships. This additional cost reduces the amount of funds that might otherwise be available to purchase food. The requirement to ship food aid on U.S.-flag ships can also cause the purchase of a commodity at a higher price, or the purchase of a different variety of commodities than originally planned. This occurs because decisions to purchase commodities can be driven by the availability of U.S.-flag ships, rather than the availability of the commodities.

HOW CARGO PREFERENCE COMPLIANCE IS MEASURED VARIES BY PROGRAM
------- Chapter 3:1

Table 3.1 shows how commodity and transportation costs are funded and how cargo preference compliance is generally measured for each food aid program.

Table 3.1

Food Aid Program Funding and Cargo Preference Compliance

Commodity and Measurement of

transportation cargo preference Food aid program funding compliance

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Seventy-five P.L. 480 title I **USDA** signs agreements with percent of tonnage purchased under countries to each purchase purchase commodities with authorization-concessional which specifies commodity, loans. USDA and approximate MARAD pay OFD, country pays tonnage, and equivalent of maximum dollar foreign-flag amount--is shipped transportation on U.S.-flag costs. ships, to the extent practical.

P.L. 480 title II AID signs Seventy-five emergency aid agreements with percent of total PVO agreements PVOs or recipient food aid tonnage

countries to provided under any part of title II is shipped on specified U.S.-flag ships,

World Food Program commodities. USDA to the extent and MARAD pay all practical. transportation expenses.

Biennial pledge from United States covers both commodity and transportation expenses.

P.L. 480 title III AID signs Seventy-five agreements with percent of food recipient aid tonnage countries to provided to each provide a set country is shipped dollar amount of on U.S.-flag aid, which ships, to the typically covers extent practical. all commodity and transportation expenses.

Section 416(b) U.S. government Seventy-five donates percent of food commodities. USDA aid tonnage and MARAD cover provided to each all transportation country must be expenses. shipped on U.S.-flag ships.

Food for Progress Concessional loans Seventy-five under title I or percent of food donated aid tonnage commodities under provided to each section 416(b) can country must be be used, depending shipped on U.S.-on the agreement. flag ships. Transportation and OFD expenses may be covered by importing country or USDA and MARAD.

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OFD IS A SIGNIFICANT PORTION OF U.S. FOOD AID PROGRAM AND TRANSPORTATION COSTS

------ Chapter 3:2

According to data obtained from USDA, from fiscal years 1991 through 1993 U.S. food aid programs have paid almost \$600 million in OFD to U.S. shipowners.\1 OFD is calculated for each food aid cargo preference shipment and is based on the difference between U.S.-flag rates and foreign-flag rates bid for that particular food aid shipment. As illustrated in figure 3.1, the almost \$600 million in OFD costs represented 34 percent of all program funds spent on transportation from fiscal years 1991 through 1993. For this same period, the almost \$600 million in OFD represented 41 percent of the program funds spent on transporting food on U.S.-flag ships.

Figure 3.1: Food Aid Transportation Expenditures, Fiscal Years 1991-93

(See figure in printed edition.)

Source: USDA.

The amount spent on OFD also represented 9 percent of all funds spent on food aid programs for fiscal years 1991 to 1993, as shown in figure 3.2.

Figure 3.2: Food Aid Commodity and Transportation Expenditures, Fiscal Years 1991-93

(See figure in printed edition.)

Note: Total U.S.-flag transportation costs are equal to U.S.-flag transportation costs and OFD costs.

Source: USDA.

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\1 USDA or AID pays OFD for the first 50 percent of food aid tonnage shipped on U.S.-flag ships; MARAD pays OFD for the next 25 percent of tonnage shipped on U.S.-flag ships.

### OFD EXPENDITURES CAN REDUCE THE AMOUNT OF COMMODITY PURCHASED

------ Chapter 3:3

For some food aid programs, the amount spent on OFD directly reduces the funds available to purchase commodities. This fact applies to title III and to U.S. contributions to the World Food Program. Both of these programs provide food aid to the least developed countries for humanitarian and economic development purposes, and both have a set dollar amount from which both the commodities and their transportation must be purchased. For other food aid programs, the amount spent on OFD affects the budgeted amount available for the program and may reduce the amount of funds available to purchase food.

TITLE III		
	Chapter	3:3.1

The purpose of the title III program is to provide resources to least developed countries to promote broad-based, equitable, and sustainable economic development. The commodities provided through this program, or the revenue generated from their sale, are used to support economic development projects to enhance food security\2 and the privatization of food and agricultural distribution systems, among other activities. AID negotiates multiyear commitments with title III recipient countries. Agreements that specify how the resources provided will be used to support these projects, and a funding level to purchase both the desired commodity and its transportation, are signed each year during the multiyear commitment.

Under title III's funding arrangement, amounts spent on OFD directly reduce the funds available to purchase commodities. For example, Sri Lanka received \$58.9 million to purchase wheat and its transportation under title III for the cargo preference year ending March 31, 1994. With these funds, Sri Lanka purchased and shipped seven lots of wheat, ranging from 42,000 mt to 52,500 mt, from July to December of 1993. Thirty-five percent, or \$20.6 million, of the program was spent on transportation and therefore was not available to purchase wheat. About \$10.8 million, or 52 percent of the transportation costs, was spent on OFD resulting from the higher rates charged by U.S.-flag ships.

Sri Lanka's experience is significant, according to AID officials, because the money spent on OFD was much more than expected and reduced the amount of wheat Sri Lanka had hoped to purchase. AID officials said that they believe the reason that OFD expenditures were so high for Sri Lanka was because Sri Lanka's shipments were competing for the U.S.-flag ships capable of carrying 50,000 metric tons with those shipments sent to Russia under USDA's Food for Progress program in the last quarter of the fiscal year. This

competition required Sri Lanka to split its wheat shipments between smaller U.S.-flag ships at higher and increasing rates. In fact, for the two U.S.-flag ships that Sri Lanka used to carry about 22,000 mt, the rates increased from \$66.81 per metric ton in August to \$122.82 per metric ton in October, while the rate for a similar-sized foreign-flag ship used by Sri Lanka in October was \$35.67 per metric ton. AID officials added that there is a limited number of U.S.-flag ships available, and individual shipping companies own or operate the majority of U.S.-flag ships of the same size. They said that this limits the amount of competition among shipowners for similar-sized cargos and provides little incentive to keep rates low. They suggested that if there were more competition, the amount of funds spent on OFD would not be as dramatic, and more funds would be available to purchase commodities.

AID's goal when arranging for the purchase of commodities and transportation for title III programs is to minimize the amount of funds spent on transportation, in order to maximize the amount of commodity AID is able to purchase. AID attempts to do this by placing no more than the required 75 percent of tonnage on U.S.-flag ships. AID officials said that the size of U.S.-flag ships that are available also affects the amount of funds spent on transportation. Thus, the more ships AID has to use to get to 75-percent U.S.-flag participation, the greater the transportation costs because smaller ships generally charge higher rates.

For example, during the cargo preference year ending March 31, 1994. Mozambique received \$15 million under the title III program to purchase corn and its transportation. At AID's Transportation Division, we observed AID officials determine what corn and commodity transportation would be procured for Mozambique and noted that the amount of corn that was purchased for Mozambique was determined by the U.S.-flag ships available. To comply with cargo preference requirements and maximize the funds available to purchase corn, AID placed exactly 75 percent of the 70,217 metric tons of corn purchased on U.S.-flag ships by using four ships--three U.S.-flag and one foreign flag--with the U.S.-flag rates almost twice the rate of the foreign-flag ship. If AID could have reduced the number of ships it used to three--two U.S.-flag and one foreign-flag--instead of four, only 70 percent of the tonnage would have fit on the two U.S.-flag ships. However, the savings in OFD from using one less U.S.-flag ship would have allowed the purchase of an additional 3,083 metric tons of corn. AID officials explained that without any cargo preference requirements, they would have used the two ships with the lowest rates regardless of flag. We estimated that if they would have done so, they would have been able to purchase about 14,000 more metric tons of corn.

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<sup>\2</sup> Food security includes assuring (1) a safe and nutritionally adequate food supply both at the national and household levels, (2) a reasonable degree of stability of food supply between and within years, and (3) access of each household to enough food to meet its needs.

------ Chapter 3:3.2

The World Food Program is the primary multilateral provider and transporter of food aid for development and disaster relief. It is also the largest source of food grant assistance for developing countries in the United Nations' system. WFP's purpose is to assist poor and food-insecure people throughout the developing world to help them become self-reliant and to provide relief food in times of natural or manmade disasters. The U.S. government's 1991-92 biennial contribution to WFP equaled about one-third of all contributions to the program during that 2-year period. U.S. contributions to WFP are given through the P.L. 480 title II program. Therefore, the U.S. government requires WFP to comply with its cargo preference requirements for all commodities that WFP purchases with the U.S. contribution. As a result, WFP was affected by cargo preference requirements in a manner similar to countries receiving food aid through title III. Beginning with the 1991-92 U.S. contribution, the contributed amount was to cover both the commodity value and the associated transportation costs, including OFD. Previously, the U.S. government had refunded to WFP the OFD costs of complying with U.S. cargo preference laws.

While the U.S. contribution was increased in consideration of this new arrangement, at the same time over the last several years WFP officials have observed a steep rise in U.S.-flag rates with no similar increase in foreign-flag rates. For example, the difference between the cost of transporting commodities on chartered U.S.-flag ships instead of less expensive foreign-flag ships available for charter was almost 100 percent in 1991 and more than 150 percent in 1992. This resulted in WFP spending \$19.7 million to cover the additional cost of using U.S.-flag ships out of the \$200-million 1991-92 regular pledge portion of the U.S. contribution. WFP estimates this differential will require up to \$44 million of the \$225-million 1993-94 U.S. regular pledge portion of the U.S. contribution. World Food Program officials stated that this ever-widening differential will continue to substantially reduce the commodity component of U.S. contributions to the program.

COMMODITY PURCHASING DECISIONS CAN BE DRIVEN BY THE AVAILABILITY OF U.S.-FLAG SHIPS

------ Chapter 3:4

USDA views title I as a means to develop future markets for the commercial purchase of U.S. agricultural commodities and believes that cargo preference requirements interfere with its ability to develop such markets for U.S. agricultural products. It is difficult to develop a market for a particular product when recipient countries are unable to purchase it because U.S.-flag ships are not available to transport that product. USDA officials also say that they believe that recipient countries that have had an unfavorable experience with the title I program because of the consequences of using U.S.-flag ships may choose to not purchase agricultural products from the United States commercially in the future.

### THE LOWEST-COST COMMODITY CANNOT ALWAYS BE PURCHASED

------ Chapter 3:4.1

When food aid recipients are unable to purchase the lowest-cost commodity, it is typically because no U.S.-flag ships are available to pick it up at the loading port. This situation forces the recipient countries to either purchase the commodity at a more expensive price in order to comply with cargo preference requirements, or to not purchase any commodities. For title I, USDA's policy is to purchase commodities and their transportation in a way that minimizes the total cost (lowest landed cost) to meet cargo preference requirements. Depending on the availability of U.S.-flag ships and their rates, commodities cannot always be purchased at their lowest price. For example, for a 1992 title I wheat purchase for Tunisia, the four lowest offers specified loading facilities in ports on the Columbia River and in Stockton, California. Since no U.S.-flag ships offered to transport wheat from these ports, Tunisia was unable to take advantage of these low wheat prices.

Tunisia offered to purchase the next lowest wheat offer, which restricted loading to only one ship, and place all the tonnage--approximately 54,000 metric tons--on one U.S.-flag ship. USDA would not approve this alternative because over 80 percent of the tonnage previously purchased under this purchase authorization had been shipped on U.S.-flag ships. Therefore, sending 100 percent of this purchase on a U.S.-flag ship would have cost USDA close to \$730,000 in additional OFD. Eventually, Tunisia was forced to purchase wheat offered in the Gulf of Mexico at the seventh and eighth lowest price and use one U.S.- flag and one foreign-flag ship. While not necessarily resulting in a higher landed cost, these prices were over \$4 higher per mt for the almost 55,000 mt Tunisia finally purchased than the lowest priced wheat obtainable regardless of the availability of U.S.-flag ships.

Food aid recipients are sometimes not able to purchase the commodities at their lowest price even if a U.S.-flag ship is available because it may not be the appropriate type or size to transport the commodity. For example, in a 1992 title I purchase Estonia wanted to place both its corn and wheat purchases on one U.S.-flag ship. The only U.S.-flag ship that offered to carry these cargos was too large to be accommodated at the loading facilities that offered the lowest wheat prices. In order to use this U.S.-flag ship, Estonia purchased higher-priced wheat (19 cents more per metric ton) from a supplier with loading facilities that could accommodate this ship.

Cargo preference requirements have also forced some countries to

purchase varieties of commodities that differ from those desired due to the unavailability of U.S.-flag ships on the West Coast of the United States. According to MARAD officials, U.S.-flag ships are typically unavailable on the West Coast because of the limited number of U.S.-flag ships, the infrequent availability of cargos on the West Coast, and the port charges on the West Coast that are much higher than those in the Gulf of Mexico. This situation can preclude countries from purchasing commodities available on the West Coast. For example, during the cargo preference year ending March 31, 1994, for title I both El Salvador and Guatemala were not able to purchase the western white wheat they wanted because no U.S.-flag ships, or no U.S.-flag ships at a reasonable shipping rate, were available on the West Coast.

According to Guatemala's agent, the purchasers were a private group of Guatemala millers that sell their products in Guatemala's domestic market. To minimize their commodity costs, they wanted to purchase less-expensive western white wheat. However, Guatemala's agent explained that because of cargo preference laws, when Guatemala puts together a purchasing plan to present to USDA it must first consider the availability of U.S.-flag ships, not what type of wheat it wants to buy.

The first time Guatemala tried to purchase wheat, no U.S.-flag ships were available on the West Coast. Therefore, the Guatemalans proposed purchasing only a total of 18,000 metric tons of wheat--12,000 metric tons of western white wheat using a foreign-flag ship and 6,000 metric tons of a different type of wheat available in the Gulf of Mexico, using a U.S.-flag ship. As only 33 percent of the purchase would have gone on a U.S.-flag ship, USDA would not approve the purchase. Instead, Guatemala chose to purchase only the 6,000 metric tons from the Gulf of Mexico and purchase the balance later in the year.

We were able to observe Guatemala's next attempt to purchase wheat. For this purchase, Guatemala was still interested in purchasing western white wheat. It had many offers for this variety of wheat that were lower than the price for wheat available out of the Gulf of Mexico. In addition, one U.S.-flag ship did offer to transport wheat from the West Coast, but at a prohibitive rate. Therefore, in order to comply with cargo preference requirements, Guatemala was not able to purchase the less expensive western white wheat, but was forced to purchase more expensive wheat from the Gulf of Mexico because that was where U.S.-flag ships were available.

El Salvador's wheat purchases were similarly affected by cargo preference requirements. The first two times El Salvador attempted to purchase wheat, it received offers for and was interested in purchasing western white wheat. But because no U.S.-flag ships were available on the West Coast and USDA would not allow it to use foreign-flag ships, El Salvador chose not to purchase any wheat. On El Salvador's third attempt to purchase wheat, western white was again available, but there were still no viable U.S.-flag offers from the West Coast. In order to break this impasse, USDA allowed El Salvador to purchase western white wheat and ship all of it on a foreign-flag ship.

However, El Salvador had to agree that future purchases under this purchase authorization would maximize the use of U.S.-flag ships. Subsequent wheat purchases by El Salvador were shipped out of the Gulf of Mexico because that is where U.S.-flag ships were available. For some of these purchases, El Salvador had to forgo purchasing less expensive western white wheat because no U.S.-flag ships were available on the West Coast.

USDA officials added that both Guatemala and El Salvador were further disadvantaged by the requirement to comply with cargo preference for title I wheat purchases because of the cost of shipping the small amount of wheat available for shipment on foreign-flag ships. USDA officials explained that when U.S.-flag ships are used to carry the majority of a purchase and the remaining balance is shipped on a foreign-flag ship, the remaining balance is such a small amount that the foreign-flag rate can be more than twice what it would have been if the entire amount had been shipped on one foreign-flag ship. This is significant for title I recipient countries because they usually incur this expense.

## USDA AND AID MANAGEMENT PRACTICES AFFECT FOOD AID TRANSPORTATION COSTS

-============== Chapter 4

Several practices USDA and AID use to manage the transportation of food aid affect transportation costs. First, USDA and AID require shipowners to use contract terms in transporting food aid cargos that are not typically required of shipowners for commercial cargos. These terms, which are applied to food aid cargos shipped on either U.S.-flag or foreign-flag ships, may increase transportation costs because they place additional costs and risks on shipowners that are then passed back to the food aid programs through higher shipping rates. Second, food aid shipments are concentrated into the last half of the year. This concentration creates a high demand for the limited number of U.S.-flag ships available during that period, which increases U.S.-flag shipping rates and the cost to transport food aid. Finally, the administration of cargo preference for food aid programs is shared by three separate agencies--USDA, AID, and MARAD--which adds to the overall cost of its administration.

### USDA AND AID CONTRACT TERMS MAY RAISE TRANSPORTATION COSTS

----- Chapter 4:1

In arranging for the transportation of food aid cargos, USDA and AID have chosen to provide and pay for additional services through the shipowners to give additional financial assistance to these needy countries. Both USDA and AID require both U.S.-flag and foreign-flag ships to provide and pay for these additional services. For those U.S.-flag ships that carry bulk commodities, these additional services are reflected in increased shipping rates, which may increase the total cost to transport U.S. food aid. Due to the uncertainty U.S. shipowners encounter in estimating the cost of providing these services when developing shipping rates for food aid

preference cargos, they would like USDA and AID to adopt contract terms for these cargos that are more consistent with those used for similar commercial cargos. The U.S. shipowners we interviewed believe that adopting these terms would reduce this uncertainty and result in lower U.S.-flag shipping rates. In response to complaints from U.S. shipowners, MARAD is pursuing a rule-making to require that food aid cargos be transported under a uniform charter party based on commercial terms that would provide a set of consistent commercial contract terms for food aid cargos.

#### FOOD AID TRANSPORTATION CONTRACT TERMS DIFFER FROM COMMERCIAL TERMS

------ Chapter 4:1.1

According to MARAD officials and the U.S. shipowners we talked to, the most widely used contract for bulk commodity cargos is the North American Grain (NORGRAIN) charter party. NORGRAIN contains typical commercial contract terms that are used as a start for the final terms agreed to between the parties for the shipment of commercial cargos. These terms differ from those used by USDA and AID for carrying food aid cargos. From our discussions with MARAD and the responses of the U.S. shipping companies that participated in our structured interview, we determined that some of the most contentious differences are the use of "full berth" terms, the timing of freight payments to shipowners, and the requirements for inland transportation and fumigation. In its provisions related to these terms, the NORGRAIN charter party places most of the financial risk on the shipowners.

#### FULL BERTH TERMS ------ Chapter 4:1.1.1

Full berth terms require a shipowner to pay the full cost of loading and unloading the cargo. They also require the shipowner to absorb the full costs associated with any delays in loading and unloading the cargo. Financial incentives for the timely loading and unloading of cargo, known as "demurrage" and "despatch,"\1 are not part of full berth terms, but are included in commercial charter parties like NORGRAIN. Without these incentives, shipowners must factor into their shipping rates any expected delays. MARAD estimates that this use of full berth terms can add up to \$15 per metric ton to the cost of a 50,000-metric ton food aid preference cargo.

Although they are moving toward contract terms that are more consistent with those used for similar commercial cargos when possible, both USDA and AID use full berth terms to some extent. For title I cargos, a USDA official explained that USDA requires the shipowner to pay for cargo loading and the importing country to pay for its discharge and that there is despatch and demurrage at both the loading and discharging port. But full berth terms are still used for donated commodities provided under section 416(b) and Food for Progress because the recipient countries typically do not have the resources to pay demurrage. AID officials explained that for

titles II and III bulk cargos, AID has moved from full berth terms to terms that are more consistent with those used for similar commercial cargo for some shipments. AID recognizes that this practice lowers shipping rates. But because the countries that receive food aid under these programs are the neediest, the extent to which these terms can be used depends on the country. AID's current arrangement for all bulk cargos is to have the commodity supplier pay to load the ship, have demurrage and despatch terms apply to the loading, and have any demurrage or despatch payments that may be required settled between the commodity supplier and the shipowner. For the recipient countries that have the resources, the country pays to unload the ship, and demurrage and despatch terms apply to the unloading; any demurrage and despatch payments required are settled between the recipient country and the shipowner. For those recipient countries that do not have the resources, cargos are unloaded under full berth terms.

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\1 Demurrage is paid to the shipowner by the charterer to compensate for any delay in loading or unloading the cargo. Despatch, typically set at one-half the demurrage rate, is paid by the shipowner to the charterer for a faster-than-expected cargo loading or unloading.

### TIMING OF FREIGHT PAYMENTS TO SHIPOWNERS

------ Chapter 4:1.1.2

Standard practice for commercial shipments is to pay the shipowner 100 percent of the freight charges due when cargo loading is complete. However, for food aid preference cargos, shipowners are not paid until the ship has arrived at its destination; then they receive 95 percent of the amount due. The remaining 5 percent is paid once the ship is on its return voyage, but only if there do not appear to be any claims against the shipowner, and no despatch is owed. Delaying payment until the cargos arrive at their destination requires the shipowner to finance the cost of the most expensive part of the voyage. These costs are reflected in the shipping rates quoted by the shipowners. MARAD estimates that this delay in payment can add as much as \$50,000 in interest expense to the cost of a voyage for a U.S. shipowner. USDA officials explained that this practice may increase shipping rates, but they feel it must be done to ensure that the cargo gets to its specified destination. They are concerned that if shipowners receive payment before their ships arrive at the discharge port and then encounter some type of problem enroute, the shipowners may unload the cargo somewhere other than the specified destination. In that case, the U.S. government would have no way to get the cargo to its intended destination. USDA believes that such a situation could greatly harm its relations with the recipient countries.

### INLAND TRANSPORTATION ------ Chapter 4:1.1.3

For a commercial bulk cargo, any required inland transportation is

arranged and paid for by the charterer. For food aid cargos, the charterer would be either the importing country itself or one of the responsible agencies. Over the last few years, however, shipowners have been required to arrange and pay for inland transportation of food aid cargos to their final destination and to incorporate this cost into their shipping rates. As shipowners must estimate the cost of providing inland transportation before it is delivered and are paid based on their estimate, it is uncertain whether USDA and AID are paying more or less than the actual cost of this service. This situation could be avoided if USDA and AID did not require shipowners to provide this service and reimbursed the recipient countries for providing this service based on actual cost (assuming the recipient countries have the necessary experience and could make the initial outlay of funds.) It seems reasonable to expect that some landlocked countries should be familiar with transporting goods inland, and should be able to make these arrangements at lower cost than shipowners who are less familiar with making these arrangements.

Although AID and USDA could reimburse the recipient country for any costs associated with transporting food aid to an inland destination, an AID official explained that for landlocked countries receiving food aid under title III, they believe requiring the shipowner to arrange and pay for this service is the best option available. This is because with the recent closing of many AID missions, AID has no one on site to make these arrangements, and AID believes it is not practical to make these arrangements from Washington, D.C. Therefore, AID's preferred means to provide these services is through the shipowners, who factor the cost of providing these services into their shipping rates. AID has not tried reimbursing the recipient countries for providing these services to determine whether this may be a more cost-effective way to provide these services. A USDA official explained that USDA also requires the shipowner to arrange and pay to transport food aid to landlocked countries receiving food aid under section 416(b) or Food for Progress when the U.S. government pays for the transportation of these cargos. USDA would consider reimbursing the recipient country for providing this service, but has found few countries interested in this option. For title I cargos, any required inland transportation is almost always arranged and paid for by the importing country.

### FUMIGATION ------ Chapter 4:1.1.4

Both USDA and AID also consistently require shipowners to arrange and pay for needed fumigation services because the agencies' goal is to provide a pest-free product, and some recipient countries do not have the funds to pay for this service. Bulk agricultural commodity cargos are typically fumigated when they are loaded on board ship. If a commercial cargo is infested when it arrives at its destination, fumigation would typically be paid for by the supplier or the receiver of that cargo. For food aid cargos, however, these costs are paid for by the shipowner. As shipowners do not know whether or not the cargo will be infested when it arrives at its destination, they must build the possibility of an infestation into their shipping rates for every food aid preference cargo. As fumigation at the discharge port is not often required, USDA and AID's requirement for

shipowners to build this possibility into their shipping rates results in USDA and AID paying for a service that is not always provided. MARAD estimates that the cost and time required to fumigate a food aid cargo can add up to \$200,000 to the cost of a voyage.

MARITIME INTERESTS BELIEVE ADOPTING COMMERCIAL TERMS WILL REDUCE FOOD AID TRANSPORTATION COSTS

------ Chapter 4:1.2

MARAD and the U.S. shipowners who participated in our structured interview and who carry bulk food aid preference cargos said that adopting contract terms that are more consistent with those used for similar commercial cargos would reduce transportation costs. Using these terms would eliminate items like those previously discussed for which the actual costs are difficult to project and that increase shipping rates for U.S. food aid preference cargos. MARAD and the U.S. shipowners we interviewed also believe that the adoption of contract terms for food aid preference cargos that are more consistent with those used for similar commercial cargos would reduce shipping rates and U.S.-flag transportation costs for these cargos.

For example, when a shipowner is carrying a cargo under full berth terms, the amount of time it would take to unload the cargo is uncertain because there is no demurrage to encourage timely unloading. For full berth term voyages, MARAD's guideline rate calculation estimates the number of days required to unload the cargo based on cargo discharge rates stated in the contract terms. MARAD does not factor in any additional days for potential delays at the destination port before unloading. Therefore, shipowners increase their rates (meaning they are closer to MARAD's guideline rate than they would be for voyages with despatch and demurrage) for full berth voyages to compensate for the uncertainty of, and lack of compensation for, delays.

This same uncertainty arises when shipowner responsibility for inland transportation is part of the contract terms. USDA and AID require shipowners to include the cost of inland transportation in their shipping rates. To estimate this cost, shipowners explained that they get bids from rail or truck companies in the recipient country for this service and include that amount in their shipping rates. In determining the total guideline rate for these cargos, MARAD includes an allowance for inland transportation based on the shipowner's estimate of these costs. But if actual costs end up being higher, shipowners are not compensated for the difference. Due to the uncertainty associated with estimating the cost of providing inland transportation services, some U.S. shipowners have chosen to no longer bid on those food aid preference cargos that require inland transportation because they view the risk of losing money as too great.

While MARAD and all the U.S. shipowners we interviewed who carry bulk food aid preference cargos agreed that adopting contract terms for food aid preference cargos that are more consistent with those used for similar commercial cargos would result in some reduction in U.S.-flag shipping rates, their estimates of the size of this reduction differed. MARAD estimated that adopting these terms could, on average, reduce U.S.-flag shipping rates by at least \$5 per metric ton. Given that about 6.1 million tons of food aid was moved on U.S.-flag ships in the cargo preference year ending March 31, 1993, using the \$5 estimate, the savings from using these terms could have been almost \$31 million. The U.S. shipowners we talked to agreed that there would be some reduction in U.S.-flag shipping rates, with most estimating a potential savings of up to 10 percent. Given that USDA and AID spent \$592 million to transport food aid on U.S.-flag ships in the cargo preference year ending March 31, 1993, using this estimate this change could have meant a savings of up to \$59.2 million in U.S.-flag transportation costs.

While USDA and AID agree that their contract terms add to food aid transportation costs, they do not agree that adopting terms more consistent with terms used for similar commercial cargos would significantly reduce U.S.-flag shipping rates. This belief is based on their observations that little reduction in U.S.-flag shipping rates has occurred in response to the few changes they have already made to move to more typical commercial terms. They also point out that services such as fumigation and inland transportation would still have to be paid for from food aid budgets even if they were not paid for through U.S. shipowners.

Given that the estimated cost of these additional items is built into food aid shipping rates, we believe that a potential may exist for some savings in food aid transportation costs, and potentially food aid program costs, by removing these terms and the uncertainty associated with estimating their actual cost, and adopting more consistent commercial terms. We believe that USDA and AID should experiment with more consistent commercial terms that would cover only the actual costs for such items as fumigation and inland transportation. This would allow a determination to be made with greater certainty about which is the best approach.

MARAD'S PROPOSED RULE-MAKING WOULD REQUIRE USE OF COMMERCIAL TERMS

------ Chapter 4:1.3

In response to U.S. shipowner complaints that contract terms for food aid cargos are "discriminatory and noncommercial, increase shipowner costs and risks, and result in higher U.S.-flag shipping rates and unnecessary expenditures of U.S. government funds," MARAD is working toward promulgating a rule to require (1) the preapproval by MARAD of all freight tenders (i.e., bid solicitations) for preference cargos and (2) the utilization of a uniform charter party by all agencies in arranging for preference cargo shipments. The uniform charter party proposed by MARAD is based on the NORGRAIN charter party that MARAD officials said is used for a majority of commercial bulk agricultural commodity cargos. The purpose of MARAD's proposed rule is to reduce the gap between U.S.-flag and foreign-flag shipping rates by lowering shipowner costs and risks caused by inconsistent charter party terms.

MARAD transmitted a draft notice of proposed rule-making to the Office of Management and Budget (OMB) for prepromulgation clearance on December 29, 1992. Due to the objections by USDA and AID over MARAD's authority to issue the rule-making, OMB did not clear the draft notice. Both USDA and AID argued that MARAD's authority does not extend beyond ensuring that 75 percent of food aid tonnage is shipped on U.S.-flag ships. As both USDA and AID have consistently complied with this requirement, these agencies believe that MARAD's proposed rule is not justified.

In response to these objections, DOT asked the Department of Justice to determine whether MARAD had the authority to promulgate rules establishing mandatory uniform charter terms. The Department of Justice concluded that MARAD's statutory authority is broad enough for it to establish and require the use of charter term regulations. Two significant points made by the Department of Justice in its ruling were that (1) regulating charter parties to eliminate terms that adversely affect U.S.-flag carriers would further the competitive interest of the U.S. merchant marine fleet and (2) having erratic charter party terms increases costs and risks for U.S.-flag carriers that interfere with their ability to calculate and offer rates that are fair and reasonable.

As of June 1994, MARAD was completing a new notice of proposed rule-making to be submitted to OMB for consideration. A MARAD official explained that MARAD is unsure whether OMB will allow it to be published, even with the Department of Justice ruling, because this situation involves one agency making a rule that must be followed by another agency. Moreover, AID disagrees with the Department of Justice's conclusion and has formally requested Justice to reconsider its conslusion.

Beginning with fiscal year 1991, title I and title III regulations required that food aid purchases be made by September 30 of each year and that all food aid cargos be loaded by December 31. Previously, food aid had to be purchased and loaded by September 30 which, as we reported in 1989,\2 heavily skewed title I shipments to the last 2 quarters of the fiscal year to satisfy cargo preference requirements. This practice resulted in higher freight costs because of the increased demand for the limited number of U.S.- flag ships available.

As shown in table 4.1, from our review of USDA's food aid shipment database for cargo preference years 1992 through 1993, we found that for titles I and III, between 55 percent and 94 percent of annual food aid tonnage was shipped between July and December; only 8 percent or less was shipped between January and March. We also found that the average U.S.-flag shipping rates for January through March were consistently lower than the average U.S.-flag shipping rates for July through December.

Table 4.1

Average U.S.-Flag Shipping Rates and Food Aid Tonnage Shipped by Time of Year

	Perce	nt	Percent	
Cargo	Average	of /	Average	of
Preference	U.S. rate	tons	U.S. rate	tons
Year	per mt I	ifted pe	er mt lift	ted
1992				
			<b></b>	
AprJune	\$52.13	41.87	\$39.85	2.16
July-Dec.	54.94	54.30	74.36	93.57
JanMar.	48.00	3.83	68.43	4.27
1993				
Λ	70.00	40.00		05.00
AprJune	72.09	10.69	65.05	25.28
July-Dec.	63.64	81.22	62.65	72.71
JanMar.	63.33	8.09	47.55	2.01

Source: GAO analysis of USDA food aid shipment database.

As USDA and AID officials explained to us, there is no one reason why the majority of food aid tonnage is shipped in the last half of the calendar year. An often-cited reason is that recipient countries delay signing their annual agreements. Both USDA and AID officials said that while signing agreements earlier may result in some countries shipping their food aid purchases sooner, there are other factors unrelated to the signing of agreements that also affect the timing of shipments, e.g., the amount of commodity storage available in the country. Therefore, USDA officials explained they are reluctant to place a lot of pressure on the countries to sign agreements earlier because they feel such pressure may discourage the countries from participating in the title I program.

Since food aid purchasing cannot occur until it is requested by the recipient country, USDA and AID have limited influence over when food aid purchasing and shipping take place. AID officials explained that title III recipient countries consider such things as commodity prices and the condition of their food stocks and harvests in determining when to request food aid. The tendency of these countries is to wait until their alternative food sources are running low to request that food aid be purchased. For title I, USDA officials explained that they believe one of the main reasons why countries wait until the end of the fiscal year to purchase food is because of the difficulties the countries encounter in getting agreements signed and purchases approved by their governments. In addition, both USDA and AID officials said that they are reluctant to place a lot of pressure on the countries to request food aid purchases earlier because they believe it may discourage them from participating in their programs.

Because the majority of food aid tonnage is being purchased and shipped during the last half of the calendar year instead of more evenly throughout the year, on average U.S.-flag shipping rates are increased. This is due to the increased demand placed on U.S.-flag ships and the entry of higher-cost ships to meet this increased demand. On average, U.S.-flag shipping rates would be lower if these cargos were spread more evenly throughout the calendar year.

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\2 P.L. 480 Title I Transportation Issues (GAO/T-NSIAD-90-08, Nov. 7, 1989).

THE COST TO ADMINISTER THE APPLICATION OF CARGO PREFERENCE TO FOOD AID PROGRAMS

------ Chapter 4:3

Both USDA and AID have specific offices set up to procure food aid cargos and their transportation. These offices spend a significant amount of time dealing with cargo preference requirements. MARAD's Office of National Cargo and Compliance monitors the shipping activities of USDA and AID and assures that they comply with cargo preference laws. Based on estimates prepared by agency officials, we provide the annual cost and full-time equivalent positions required to administer the application of cargo preference to food aid cargos for each of these agencies in table 4.2.

Table 4.2

Annual Operating Costs and Personnel Required to Administer the Application of Cargo Preference Laws to Food Aid Programs

Agency		er of full- time equivalent personnel	
USDA AID MARAD	\$365,625 738,450 598,000	8.55 8.25 8.16	
Total	\$1,702,075	24.96	

Sources: USDA, AID, and MARAD.

One way to reduce the costs of administering cargo preference would be to consolidate the administration of cargo preference within one agency. However, responsible officials from both USDA and AID believe that there would be little reduction in personnel and program costs if the activities associated with contracting for transportation of food aid preference cargos were consolidated.

Although USDA and AID officials said that some benefits would occur through the use of consistent charter terms and consolidation of cargos, they also believe that it is important to retain the transportation arrangements for food aid cargos within their respective agencies. They believe each agency understands the specific goals of the programs it administers and therefore the constraints faced in dealing with developing countries.

MARAD officials said there is a lack of centralization of government contracting for food aid programs that has resulted in higher than normal U.S.-flag shipping rates. MARAD said that consolidating the transportation arrangements for preference cargos within MARAD would yield personnel and cost savings to the U.S. government and eliminate the inconsistent practices of USDA and AID in contracting with the U.S. merchant marine fleet for transportation of food aid cargos. MARAD said this consolidation would also produce savings, as MARAD would no longer have to monitor the compliance of other agencies with cargo preference requirements.

#### CONCLUSIONS ------- Chapter 4:4

The contract terms used by USDA and AID for the transportation of food aid cargos on both U.S.-flag and foreign-flag ships places additional costs and risks on shipowners. This practice results in higher shipping rates and may or may not increase food aid transportation costs. USDA and AID have developed these contract terms as a means to provide additional services to recipient countries. The terms USDA and AID use have the most impact on those shipowners whose ships carry bulk food aid cargos and who reflect the estimated costs of these additional services in their shipping rates. We believe that some potential may exist for savings in food aid transportation costs through removing the uncertainty associated with estimating the actual costs of these services by adopting contract terms that are more consistent with those used for similar commercial cargos. However, we recognize that the savings may be offset by other increases in food aid program costs and understand that USDA and AID have other concerns about the adoption of commercial terms. To determine whether any potential exists to reduce food aid transportation costs, and food aid program costs, through the use of more consistent commercial terms, which would cover only the actual costs for such items as fumigation and inland transportation, we believe that USDA and AID should experiment with them to determine which is the best approach.

Food aid transportation costs are also increased because a majority of food aid shipments occur in the last half of the calendar year instead of being more evenly spaced throughout the year. This situation increases demand for the limited number of U.S.-flag ships available and, on average, raises shipping rates due to the entry of more costly U.S.-flag ships. While we found no conclusive reason why food aid shipments are clustered into the last half of the calendar year, it is clear that food aid transportation costs could be reduced if food aid shipments were more evenly spaced throughout the year.

#### RECOMMENDATIONS

------ Chapter 4:5

If Congress chooses to continue the application of cargo preference laws to food aid cargos, we recommend that the Secretary of Agriculture and the Administrator of the Agency for International Development take the following steps because of their potential to reduce food aid transportation costs:

Experiment with the use of contract terms for the transportation of food aid cargos that are more consistent with contract terms used for similar commercial cargos to determine whether their use will reduce food aid transportation costs.

Encourage recipient countries to more evenly space their food aid shipments throughout the year.

#### AGENCY COMMENTS AND OUR EVALUATION

------ Chapter 4:6

AID said it agrees with our recommendation to experiment with the use of contract terms for the transportation of food aid cargos that are more consistent with contract terms used for similar commercial cargos to determine whether their use will reduce food aid transportation costs. However, AID's preference is for a collaborative interagency effort in this regard to experiment with different terms under controlled conditions in selected shipments. We believe that this approach could meet the objectives of our recommendation.

USDA agrees that the use of contract terms more consistent with terms used for similar commercial cargos might reduce food aid transportation costs. However, they believe a primary factor that influences shipping rates is not the terms, but the degree of competition. USDA also believes that forcing commercial terms, such as NORGRAIN, on foreign countries that are not commercial buyers can defeat the purpose of the food aid provided. We agree that the degree of competition should be a major factor that affects shipping rates. However, the degree of competition among U.S.-flag ships seeking to carry food aid cargos is often limited. U.S.-flag shipowners are generally guaranteed at least 75 percent of food tonnage by law, and we would expect that the most cost-efficient U.S.-flag ships would obtain those food aid cargos before less cost-efficient U.S.-flag ships. However, when demand for U.S.-flag ships is high, competition among the limited number of U.S.-flag ships is greatly reduced, and the less cost-efficient ships are able to obtain food aid cargos despite their high rates. Regarding foreign countries' reactions to the use of shipping terms more closely aligned with NORGRAIN, we believe that the best approach for USDA is to simply experiment with the terms and evaluate the overall effects, including the effects on foreign countries as well as on transportation and program costs.

MARAD supports the use of transportation contract terms that are more closely aligned with those used in transporting similar cargos made

under commercial sales transactions. In fact, MARAD believes that the adoption of their proposed uniform charter party for food aid preference cargos--which will principally impose such shipping terms on AID and USDA--will reduce transportation costs by removing what MARAD considers unnecessary risks and cost from the shipowners. AID and USDA told us that they do not support a uniform charter party because they believe the shipping terms that would be included in such an arrangement would reduce the flexibility they currently have to set shipping terms. We have not fully evaluated MARAD's proposed uniform charter party nor the potential implications it could have on the food aid programs and therefore do not have a position on the matter. We continue to believe that the appropriate course of action now is to experiment with shipping terms.

USDA agreed with our recommendation directed at reducing food aid transportation costs by more evenly spacing food aid shipments throughout the year. USDA identified several reasons why this occurs, and said it will continue its efforts to more evenly space food aid shipments by obtaining early signing of agreements and prompt purchasing of food aid.

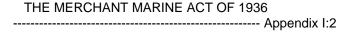
AID did not comment on this recommendation.

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The U.S. Congress has enacted several cargo preference laws. The current primary laws are the Cargo Preference Act of 1904, the Merchant Marine Act of 1936, and the Cargo Preference Act of 1954. In addition, the Food Security Act of 1985 contains significant cargo preference requirements that apply specifically to U.S. food aid programs.

THE CARGO PREFERENCE ACT OF	
1904	
Appendix	x I:1

The Cargo Preference Act of 1904 (10 U.S.C. 2631, ch. 1766, 33 Stat. 518, Apr. 28, 1904), as amended, states that only vessels of the United States may be used in the transportation by sea of supplies bought for the Army, Navy, Air Force, or Marine Corps. However, if the President finds that the freight rate charged by those vessels is excessive or otherwise unreasonable, contracts for transportation may be made as otherwise provided by law. In effect, this law requires that 100 percent of Department of Defense (DOD) cargo be shipped on U.S.-flag vessels.



The Merchant Marine Act of 1936 (46 U.S.C. 1101 et seq., ch. 858, 49 Stat. 1985, June 29, 1936) was enacted to recognize the need to develop a U.S. merchant marine for national defense and to carry a substantial portion of our domestic and foreign commerce. Section

901 of the act requires government employees traveling on official business overseas to use ships registered under U.S. laws when available. Section 901 of the act was later amended by the Cargo Preference Act of 1954 and the Food Security Act of 1985 to specify the percentage of cargo tonnage that is required to be transported on U.S.-flag vessels.

## THE CARGO PREFERENCE ACT OF 1954 ------ Appendix I:3

The Cargo Preference Act of 1954 (46 U.S.C. 1241(b), ch. 936, 68 Stat. 832, Aug. 26, 1954) amended section 901 of the Merchant Marine Act of 1936 to require that at least 50 percent of all U.S. government cargo tonnage be transported on privately owned, U.S.-flag commercial vessels, to the extent that such vessels are available at fair and reasonable rates.

### THE FOOD SECURITY ACT OF 1985 ------ Appendix I:4

The Food Security Act of 1985 (P.L. 99-198, December 23, 1985) further amended section 901 of the Merchant Marine Act of 1936 by requiring that by April 1988, and for each year thereafter, an additional 25 percent of food aid tonnage exported under Public Law (P.L.) 480, section 416, of the Agricultural Act of 1949 (Ch. 792, 63 Stat. 1051, 1058, Oct. 31, 1949), as amended, and the Food Security Wheat Reserve Act of 1980 (title III of P.L. 96-494, Dec. 3, 1980), be transported on privately owned, U.S.-flag commercial vessels. The Department of Transportation (DOT), through the Maritime Administration (MARAD), is required to fund the ocean freight differential (OFD) for the additional 25 percent of food aid tonnage shipped on U.S.-flag vessels.

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Perhaps the most publicized food aid package in recent years was the U.S. pledge of \$700 million in commodities to Russia announced in April 1993. As with all food aid shipments, cargo preference requirements applied to these sales. However, because much of this food aid was shipped at the time of year when most other U.S. food aid was being transported, the unavailability of U.S.-flag ships prevented the U.S. Department of Agriculture (USDA) from shipping 75 percent of this tonnage on U.S.-flag ships.

### THE U.S.-RUSSIA AGREEMENT ----- Appendix II:0.1

President Clinton pledged \$700 million in agricultural aid to Russia at a summit conference with Russian President Yeltsin in Vancouver, Canada, in April 1993. The aid was to be extended primarily under USDA's Food for Progress program, which provides commodities to

countries making commitments to expand free enterprise in their agricultural economies. Of the \$700 million available, \$500 million was pledged for commodities and \$200 million was set aside for transportation.

Approximately \$430 million of the aid was credit extended to Russia under Food for Progress to purchase various U.S. agricultural commodities. An additional \$70 million provided was in the form of U.S. commodity donations provided under Food for Progress and section 416 of the Agricultural Act of 1949. Cargo preference laws required that at least

75 percent of the commodities sent to Russia be shipped on U.S.-flag vessels. As a result of this requirement, total transportation costs for these commodities were estimated at \$200 million. Russia agreed to pay the estimated \$100-million cost of transporting the Food for Progress-financed commodities at foreign-flag rates, while the remaining \$100 million in transportation costs--the additional cost of using U.S.-flag ships for Food for Progress shipments and all transportation costs for section 416 shipments--was to be paid by the United States.

PROBLEMS ENCOUNTERED IN FOOD FOR PROGRESS SHIPMENTS TO RUSSIA

------ Appendix II:1

U.S. shipowners faced problems in delivering commodities to Russia under this agreement both because of specific contractual terms as well as the nature of port infrastructure in Russia. According to USDA officials, the agreement between the United States and Russia allowed for Food for Progress cargos to be unloaded at Russian discharge ports according to the "custom of the port." Under these terms, Russian ports do not pay demurrage to shipowners for delays in unloading commodities.

In addition, for some cargos USDA required shipowners to arrange and pay for inland transportation of the commodities to their final destination and to reflect this cost in their shipping rates.

### "CUSTOM OF THE PORT" ----- Appendix II:1.1

Under "custom of the port" terms, there are no despatch payments to the Russian discharge port if the cargo unloading is completed earlier than agreed to, and the port pays the shipowner no demurrage if the cargo unloading is completed later than agreed. According to MARAD officials and U.S. shipowners, "custom of the port" terms place them at a disadvantage compared to foreign-flag ships since many have had limited experience in delivering to Russian ports. While U.S. shipowners face greater uncertainty as to how to adjust their rates to account for possible delays in unloading cargo, an international shipbroker we spoke to stated that foreign-flag ships have had more consistent business in these ports and are in a better position to make arrangements at the ports for cargo discharge. In addition, U.S. shipowners are limited in providing for these

uncertainties in the rates they set because no detention days are allowed for these cargos and are therefore not considered in MARAD guideline rate calculations. Nevertheless, as pointed out by USDA, Russia's terms did not prohibit the payment of detention at discharge.

The absence of despatch and demurrage payments at the discharge port has special significance in Russian ports, given the extensive delays in cargo unloading experienced there in the past. A U.S. interagency review of overall port infrastructure in Russia undertaken in the summer of 1993 confirmed the existence of congestion for almost all types of cargos. As a result, delays of between 20 and 40 days were experienced. The report attributed the congestion to institutional, managerial, and financial limitations, rather than to an insufficiency of port facilities. However, specific features of Russia's ports limit their capacity and efficiency, such as the reliance on an insufficient railroad system, and the absence of port bulk storage. Nevertheless, according to MARAD, for the shipments made under the Russia Food for Progress program, no discharge of a U.S.-flag vessel took longer than 27 days.

Without meaningful port storage, railcar availability becomes a primary determinant of port capacity. Limitations in railcar supply have traditionally been a problem in Russian ports. In fact, a June 1993 joint MARAD and Agency for International Development (AID) study found that limits on the number of railcars available were the major impediment to grain-handling at Russian ports. However, this was not a significant problem for shipments made under the Russia Food for Progress program. Furthermore, Russian ports have not been able to enforce agreements with railroads regarding railcar supply. Given that this key variable in their ability to unload cargo is beyond their control, the ports are reluctant to accept terms that include demurrage.

#### INLAND TRANSPORTATION ----- Appendix II:1.2

USDA generally requires shipowners to arrange and pay for transportation of food aid to inland destinations of recipient countries. While this is not a typical practice for commercial bulk commodity cargos shipped internationally, USDA requires shipowners to arrange and pay for inland transportation to relieve foreign countries from paying this cost. Shipowners are required to incorporate the costs of providing this service into their shipping rates.

In Russia, U.S.-flag shipowners are heavily reliant on the performance of the railroads in arranging for transportation of food to inland destinations. This dependency on railroads arises because other modes of inland transportation in Russia are generally scarce. According to recent U.S. studies of Russian transportation modes, the railroads are the only mode of transportation exempt from the drive toward privatization in Russia. Competition is limited, with ports usually having no choice in the selection of the railroad handling its cargos.

As previously noted, recent U.S. studies of the railroad system in Russia have pointed to problems with the adequacy and reliability of railcar supply in handling cargos discharged at ports. While the availability of railcars is traditionally a problem for Russian ports, according to USDA, only two Russian Food for Progress cargos required inland transportation, and no problems were experienced.

The complexity of Russian railroad tariffs adds to the uncertainty U.S. shipowners face when charged with inland transport responsibilities. Rate increases can be implemented at any time without advance notice. Furthermore, there is a wide range of added charges that can be imposed for special services such as storage and handling. As a result, USDA is not able to assure that these railroad rates are based on actual market costs and do not instead provide an indirect subsidy to Russia.

### THE STATUS OF THE AGREEMENT

As of June 14, 1994, most of the commodities included in the Russia Food for Progress agreement had been purchased at amounts equal to or greater than in the original agreement. USDA officials explained that the commodity mix in the original agreement was amended several times at Russia's request and that unused funds slated for ocean freight differential were used to increase commodity funding. The amounts purchased as of June 14, 1994 are shown in table II.1.

Table II.1
Status of Russia Food for Progress
Agreement

Amount per

agreement (in Amount purchased millions of (in millions of Commodity dollars) dollars) \_\_\_\_\_\_ \$227.5 \$257.5 Corn Soybean meal 105.0 134.2 Butter 66.5 54.4 Wheat 56.0 56.0 Rice 7.0 None Refined soybean oil 18.0 None Peanuts 8.0 7.4 7.0 Poultry None Sugar 5.0 4.7 \_\_\_\_\_\_ Total \$500.0 \$514.2

Source: USDA.

According to USDA officials, most of the actual shipping of the Food for Progress commodities to Russia occurred during the last quarter of fiscal year 1993 and the first quarter of 1994, a time when most

other U.S. food aid shipments took place. These food aid shipments are also subject to cargo preference requirements. The demand for transportation for all food aid commodities led to increased competition during these months for the U.S.-flag ships available to carry food aid. As a result, the 75-percent cargo preference requirement for commodities shipped to Russia was not met, although (except in three instances) all U.S.-flag ships that bid were awarded cargos.

While 100 percent of the wheat purchased was shipped on U.S.-flag ships, for corn and soybean meal, for which the most tonnage was shipped, only 28 percent and 18 percent, respectively, were transported on U.S.-flag ships. Several other offers by U.S. shipowners to transport these commodities were rejected because the difference between the rates they quoted and foreign-flag rates was excessive. Still, if these offers had all been accepted, they would have added only another 3 percent to the corn tonnage and 4 percent to the soybean meal tonnage shipped on U.S.-flag vessels.

SHIPPING RATES FOR GRAIN UNDER THE ISRAELI SIDE LETTER AGREEMENT ARE SIGNIFICANTLY LOWER THAN FOOD AID SHIPMENTS TO RUSSIA

============== Appendix III

Under the Israeli cash transfer program, an agreement with AID was in effect from fiscal years 1980 through 1988, and again for fiscal years 1991 through 1994. The agreement, commonly referred to as the "side letter agreement," stated that for the portion of the U.S. cash transfer assistance that Israel used to purchase U.S. agricultural commodities, 50 percent of the tonnage purchased would be shipped on U.S.-flag ships. Each fiscal year, Israel purchases about 1.6 million metric tons of grain, of which 800,000 metric tons are shipped on U.S.-flag ships.

A COMPARISON OF AGRICULTURAL COMMODITY SHIPMENTS TO ISRAEL AND RUSSIA

------ Appendix III:1

According to MARAD and a U.S. shipowner who has carried grain to Israel under this program, U.S.-flag shipping rates to Israel were in the low \$30 per metric ton range, which is just a few dollars more than foreign-flag rates, while U.S.-flag shipping rates for food aid shipments to Russia were in the mid-\$40s to mid-\$60s per metric ton range. They also explained that grain shipments to Israel are made with no Israeli or U.S. government involvement. Therefore, privatized Israeli entities and the U.S.-flag shipowners have negotiated commercial arrangements that include consecutive voyage charters with terms and conditions that provide incentives to move the cargos quickly and efficiently. U.S.-flag shipowners are able to offer a low rate because they know they will immediately discharge their cargos in Israel with no unexpected port charges. In addition, the use of consecutive voyage charters, which guarantee employment for a U.S.-flag ship for a specified period of time, also

significantly lowers shipping rates. Israel is interested in keeping U.S.-flag shipping rates as low as possible, because it pays the cost of using more expensive U.S.-flag ships.

According to this same U.S.-flag shipowner who has also carried food aid shipments to Russia, there are no incentives for the Russian government to minimize its costs for using U.S.-flag ships to transport Food for Progress cargos. This is primarily due to the fact that under the Food for Progress program, USDA pays the additional cost of using U.S.-flag ships, not Russia. USDA also has approved shipping charters that include terms like "custom of the port" discharges. These terms allow U.S.-flag ships to be delayed in Russian ports with no compensation to the shipowner. Russia's charters require the U.S.-flag shipowners to be responsible for all port costs. In addition, no consecutive voyage charters were used for the food aid tonnage shipped to Russia. The uncertainty about how much these items would cost led shipowners of U.S.-flag ships to quote higher shipping rates for food aid cargos to Russia. Appendix II provides additional information on food aid shipments to Russia.

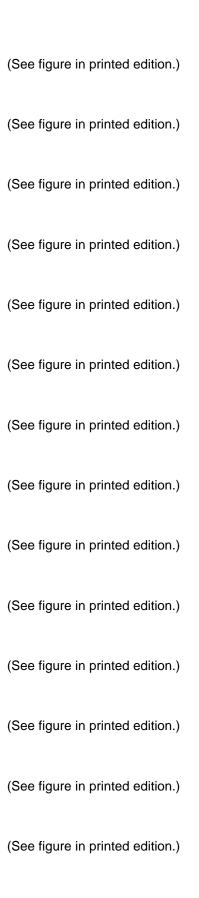
THE APPLICABILITY OF THE ISRAELI EXPERIENCE TO RUSSIA IS UNCERTAIN

(See figure in printed edition.)

------ Appendix III:2

According to MARAD officials, the extent to which the terms similar to those used for Israeli grain shipments could be used to lower rates for food aid shipments to Russia is uncertain. They explained that Israel and Russia have two very different types of business environments. Israel is an established and stable country with modern port facilities that has been arranging these shipments for the past 15 years; Russia is unstable, is just beginning to privatize its operations, and is not experienced in this type of a program. In addition, U.S.-flag ships are not experienced in how Russian ports operate and do not know what to expect in terms of delays and port and handling charges. MARAD predicts that the use of commercial terms would lower U.S.-flag shipping rates. But due to the economic condition of Russia, MARAD also predicts it will be some time before many of the terms and conditions used in Israeli shipments, which allow lower U.S.-flag shipping rates, can be successfully applied to food aid shipments to Russia.

(See figure in printed edition.)Appendix IV SHIPOWNER STRUCTURED INTERVIEW	A 15 HI
	====== Appendix III
(See figure in printed edition.)	



(See figure in printed edition.)
(See figure in printed edition.)
(See figure in printed edition.)Appendix V MARCH 17, 1994, MEMORANDUM FROM THE OFFICE OF THE UNDER SECRETARY OF DEFENSE FOR TRANSPORTATION POLICY ============Appendix III
Appendix III
(See figure in printed edition.)
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(See figure in printed edition.)  (See figure in printed edition.)

(See figure in printed edition.)
(See figure in printed edition.)Appendix VI COMMENTS FROM THE DEPARTMENT OF AGRICULTURE ====================================
(See figure in printed edition.)
The following are GAO's comments on the Department of Agriculture's letter dated September 22, 1994.
GAO COMMENTS Appendix III:3

- 1. We agree that in some instances the rate differences between U.S.-flag and similar-sized foreign-flag ships can be greater than the amount we state in the report. We chose to use a more conservative difference in conducting our analyses. We also added a note to figure 2.1 to reflect our use of weighted averages.
- 2. The report language has been revised as suggested.
- 3. Language was added to chapter 3 of the report to more accurately reflect the impact of "lowest landed cost" on the ability of countries to purchase the lowest cost commodity.
- 4. Language was added to chapter 3 of the report to describe this additional impact caused by complying with cargo preference requirements for title I recipient countries.
- 5. According to MARAD officials, they intend to pursue the implementation of their uniform charter party for food aid preference cargos.
- 6. The report language was revised to include that for the specific Russia Food for Progress program according to USDA, no discharge exceeded 27 days and the availability of railcars was not a significant problem.
- 7. The report language was revised as suggested.
- 8. This point was added to the report.
- 9. The report language was revised to include this information.
- 10. While according to MARAD officials and the U.S. shipowners we talked to, NORGRAIN is the most widely used contract for bulk commercial cargos, we agree that it is only a start for the final terms agreed to between parties for the shipment of commercial cargos. (The blank copy of the NORGRAIN contract referred to in USDA's comment was not reproduced in this appendix.)
- 11. The report attributes these views to MARAD and the U.S. shipowners that carry food aid preference cargos, not GAO. They are provided so the reader can understand why MARAD is pursuing a rule to require MARAD preapproval of freight tenders and a uniform charter party for food aid preference cargos.
- 12. See our response to agency comments at the end of chapter 4.
- 13. As stated in our response to agency comments in chapter 4, it is our intention that USDA and AID experiment with the use of terms that are more similar to those used for commercial cargos. By its nature, this recommendation asks USDA and AID to consider these terms and conduct experiments where they see a potential to reduce transportation costs. It is not our intention that reductions in food aid transportation costs increase total program costs. We also modified the text to reflect that some countries lack the necessary experience and financial resources to pay for inland transportation services.

- 14. Typical charter parties used for commercial shipments include provisions to ensure the delivery of a cargo to its intended destination and provide legal remedies if it is not.
- 15. The report language has been modified to reflect this comment.
- 16. The report language has been clarified as suggested.
- 17. USDA's agreement with our recommendation is reflected in the report.

(See figure in printed edition.)Appendix VII COMMENTS FROM THE AGENCY FOR INTERNATIONAL DEVELOPMENT	A 11 111
	====== Appendix III
(See figure in printed edition.)	
(See figure in printed edition.)	
See comment 2.	
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See comment 13.	
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See comment 16.
(See figure in printed edition.)
See comment 20.
See comment 21.
See comment 22.
(See figure in printed edition.)
See comment 23.
See comment 24.
See comment 26.
(See figure in printed edition.)
See comments 17 and 27.
See comment 28.
See comment 30.
(See figure in printed edition.)
See comment 31.
The following are GAO's comments on the U.S. Agency for International Development's letter dated September 21, 1994.
GAO COMMENTS

#### ------ Appendix III:4

- 1. We believe we have demonstrated that the application of cargo preference requirements to food aid programs can adversely affect the operations of those programs and not significantly help achieve the objectives of the Merchant Marine Act of 1936, as amended. Nevertheless, the continuance of this application of cargo preference requirements is a matter of policy which, we believe, can be best determined by Congress. Chapter 2 contains a matter for congressional consideration related to this issue.
- 2. We agree that direct subsidies would offer a more efficient alternative for achieving the objectives of the Merchant Marine Act

of 1936, as amended, by providing support to those ships that (1) could best serve as a naval auxiliary in times of war or national emergency and (2) could be competitive in carrying a substantial portion of the foreign commerce of the United States.

- 3. We agree and have made the appropriate addition to the matter for congressional consideration in chapter 2.
- 4. Our recommendation in chapter 2 is not intended to endorse MARAD's proposed "uniform charter terms." In chapter 4 of the report, we describe MARAD's efforts to establish such terms, but we do not take a position on the matter. Rather, we point out that there is a potential for food aid transportation cost savings if terms used for contracting food aid shipments were more consistent with those used for contracting commercial shipments of agricultural commodities. Furthermore, our recommendation in chapter 4 on this matter is limited to experimenting with such terms by the agencies responsible for shipping food aid.
- 5. MARAD's guideline rates are addressed in chapter 2 because we discuss the rate-determination process in terms of its being a disincentive for shipowners to reduce their operating costs. We do not believe that the discussion takes away from the main message of the chapter. Rather, we believe it buttresses the message by indicating that this disincentive to improving the efficiency of U.S.-flag ships helps keep the second objective of the Merchant Marine Act of 1936--i.e., the carrying by U.S.-flag ships of a substantial portion of U.S. domestic and foreign waterborne commerce--from being achieved.
- 6. We agree that the best chance for shipping rate reductions would be if Congress were to permit U.S.-flag foreign-built ships to immediately carry food aid preference cargos and MARAD were to include these new entrants in its average cost calculations. Our recommendation to MARAD is premised on Congress allowing the entry of U.S.-flag foreign-built ships into the food aid cargo preference trade. This provision would be the key difference from MARAD's previous "fleetwide average" approach.
- 7. See our response to agency comments presented at the end of chapter 4.
- 8. As stated in our response to agency comments in chapter 4, it is our intention that USDA and AID experiment with the use of terms that are more similar to those used for commercial cargos. By its nature, this recommendation asks USDA and AID to consider those terms and conduct experiments where they see a potential to reduce transportation costs. In conducting these experiments, we assume that USDA and AID will collect and track any cost data they believe are necessary to provide meaningful results. It is also not our intention that any reduction in food aid transportation costs increase total food aid program costs.
- 9. We appreciate that commercial agricultural exporters and government food aid programs may have different objectives and that not all commercial terms and practices will meet government needs.

- 10. The report language has been revised so it does not imply that AID's terms are noncommercial.
- 11. The report language has been revised to clarify that we are concerned with a reduction in food aid transportation costs, but only if it does not increase food aid program costs. This clarification is also included in the agency comments section at the end of chapter 4.
- 12. The report language has been clarified as suggested.
- 13. The report language was revised to remove its reference to 50 percent of cargos are unloaded under full berth terms.
- 14. We believe that it is reasonable to expect that some landlocked food aid recipient countries are capable of handling arrangements for inland transportation.
- 15. AID's proposal for a "two-tier" rate system to cover fumigation expenses is exactly the type of experiment we are suggesting be applied to food aid cargos.
- 16. The estimates for potential savings in food aid transportation costs through the adoption of terms that are more consistent with those used for similar commercial cargos presented in the report are based on MARAD and shipowner estimates. While these estimates may overstate potential savings, they are presented to illustrate that some cost reduction may be achieved through the use of contract terms more consistent with those used for similar commercial cargos.
- 17. We agree that competition is an important factor in reducing food aid transportation costs, which is why we include matters for congressional consideration and recommendations in chapter 2 directed at improving the efficiency and number of U.S.-flag ships that carry food aid preference cargos.
- 18. Regardless of whether or not MARAD includes financing expenses in its guideline rate calculations, the U.S. shipowners we talked to said that when they incur this expense, they factor it into their shipping rates.
- 19. Shipowners are reimbursed for the cost of inland transportation through their shipping rates. The amount allowed by MARAD to cover the cost of inland transportation is based on the shipowner's estimate of these costs. Given that these estimates can vary significantly among shipowners bidding on the same cargo, the actual cost of this service may not be accurately captured through the amount included in the shipping rates.
- 20. No change is being made since the current language reflects that the direct tradeoff between using funds for food aid versus its transportation is not present for all food aid programs.
- 21. Additional adverse impacts are noted in chapter 3.
- 22. We believe the report sufficiently implies that these additional services are not optional but are part of the total package that USDA

and AID provide to food aid recipient countries. The word "choose" is used to describe the method by which these services are being provided.

- 23. AID's views on the problems associated with securing inland transportation are included in chapter 4.
- 24. It is not our intention to imply that something is wrong with fixed-price contracting. We are merely stating that handling the delivery of these services in a way that is more consistent with how commercial cargos are handled may result in USDA and AID paying something closer to the actual costs of these services.
- 25. We agree and have made the suggested change.
- 26. We say "reduce the incentives" because there are factors other than the method used by MARAD in establishing guideline rates that may also provide disincentives to more efficient operations. For example, the current requirement that U.S.-flag foreign-built ships must wait 3 years before being allowed to participate in the food aid cargo preference program also reduces shipowners' incentives to increase efficiencies.
- 27. We agree that shipping rates can be affected by the degree of competition among shipowners for particular food aid cargos. As noted in the report, there was a corresponding decrease in the amounts of ocean freight differential incurred in the food aid programs following the entry of seven new, foreign-built, U.S.-flag ships in the food aid cargo preference trade in the early 1980s. These seven new ships were more efficient than some of the older U.S.-flag ships participating in the program and, through competition, were able to acquire food aid cargos that might have otherwise been carried by less efficient U.S.-flag ships at higher shipping rates.
- 28. Table 3.1 represents how cargo preference compliance is generally measured for each food aid program. AID may measure and report compliance to MARAD for the title III program by (1) total program tonnage, (2) for each year, and (3) by type of vessel. But in practice, MARAD provides funding for each title III country separately and requires that 75 percent of the food aid tonnage purchased for each country be shipped on U.S.-flag ships. Table 3.1 has been revised to state that 75-percent compliance by country is a practice, not a requirement, for title III.
- 29. The report explains that MARAD's uniform charter party is based on North American Grain (NORGRAIN). We agree that NORGRAIN is only a start for the final terms agreed to between parties for the shipment of commercial cargos. In addition, as stated in our response to agency comments presented at the end of chapter 4, we have not evaluated MARAD's uniform charter party and do not take a position on it.
- 30. AID's opposition to MARAD's uniform charter party is noted in the report.
- 31. We are reflecting U.S. shipowners views.

# (See figure in printed edition.) Appendix VIII COMMENTS FROM THE DEPARTMENT OF **TRANSPORTATION** (See figure in printed edition.) (See figure in printed edition.)

The following are GAO's comments on the Department of Transportation's letter dated September 21, 1994.

(See figure in printed edition.)

#### **GAO COMMENTS**

------ Appendix III:5

1. The sentences that DOT referenced in its comment have been revised based on DOT's comments and technical comments made by DOD on these same sentences. DOD's amendments were aimed at clarifying DOD's position on crew needs for the Ready Reserve Force (RRF).

We disagree that we misstate the national security requirement for seafarers employed on U.S.-flag bulk ships. According to information previously provided to us by the MARAD:

Sixteen to 18 dry bulk carriers transported food aid cargos during the last 3 cargo preference years. These ships supported approximately 800 mariners. It is these ships, and their crews, that transported the majority of food aid cargos and are the main focus of the report.

The overwhelming majority of the 190 bulk ships that DOT refers to in its comment are tankers. Only 25 of those tankers have carried food aid preference cargos during the last 3 cargo preference years, and those instances generally occurred when traditional petroleum cargos were not available.

2. We have not evaluated the use of merchant mariners being used in Operation Maintain Democracy.

With the revisions made to the sections of the report regarding DOD's position on crews, the report is consistent with the GAO reports referred to by DOT.

- 3. We continue to believe that the current application of cargo preference requirements to food aid tonnage contains disincentives to lower costs for those U.S.-flag shipowners who contract to transport such tonnage. However, we concur with DOT that the proposed Maritime Security Program would help U.S.-flag shipowners achieve operating efficiencies.
- 4. We are recommending that USDA and AID experiment with contract terms that are more consistent with those used for similar commercial cargos. This recommendation does not endorse MARAD's uniform charter party as contract terms we expect USDA and AID to adopt. As we have stated in our response to agency comments presented at the end of chapter 4, while it is our intention that USDA and AID experiment with these terms to reduce food aid transportation costs, it is not our intention to recommend adoption of changes that result in an increase in food aid program costs.
- 5. In contracting for food aid cargos, we found that both USDA and AID use consistent terms for U.S.-flag and foreign-flag ships. Therefore, a comparison of U.S.-flag and foreign-flag rates for food aid cargos should accurately represent the difference (the OFD) in these rates. It would not be appropriate to compare U.S.-flag rates for food aid cargos with either U.S.-flag or foreign-flag rates for commercial cargos. But since all discussions in the report of the differences in U.S.-flag and foreign-flag rates are based on food aid

cargos, the OFD amounts presented appropriately represent the difference between U.S.-flag and foreign-flag shipping rates for these cargos.

In addition, the report language has been modified to clarify that inland transportation costs are not part of the guideline rate determination, but an allowance, based on the shipowner's estimate, is added to the calculated guideline rate to cover these costs.

- 6. This issue can be pursued under our recommendation that USDA and AID experiment with the use of contract terms that are more consistent with those used for similar commercial cargos.
- 7. Using terms for the Russian Food for Progress program that more closely resembled those used for grain shipments to Israel under the side-letter agreement may have resulted in lower transportation costs. However, as presented in appendix III, MARAD stated the extent to which the terms similar to those used for Israeli grain shipments could be used to lower rates for food aid shipments to Russia is uncertain.
- 8. This point was made in chapter 1, but was added to chapter 3 for clarification.
- 9. As explained in appendix II, almost all U.S.-flag ships that bid on Russia Food for Progress cargos were awarded those cargos. Although 75 percent of these cargos were not shipped on U.S.-flag ships, it was due to the nonavailability of U.S.-flag ships. While cargo preference may not have impeded commodity purchasing for this program, it is clear, as we describe in chapter 3, that there are instances where U.S.-flag ships are not available and commodity purchasing decisions are affected.
- 10. Chapter 3 states those factors that cause U.S.-flag ships to typically not be available on the U.S. West Coast. It is true that if a U.S.-flag ship had been available on the West Coast, its shipping rate may have more than offset the savings available from purchasing the lowest-priced wheat. But because no U.S.-flag ships were available on the West Coast, Tunisia did not have the opportunity to consider this option.
- 11. We disagree that we ignore the legislative intent of cargo preference. We carefully reviewed all relevant legislation, including the legislation DOT refers to in its comment and its attachment, and have concluded that the intent of cargo preference is to help support the objectives of the Merchant Marine Act of 1936, as amended. We also recognize in the report that cargo preference does support some U.S. ships and crews and that Congress has repeatedly reaffirmed its support for maritime industry subsidies.
- 12. As explained in chapter 1, cargo preference is one of several programs established by Congress to support the U.S. merchant marine. In applying cargo preference to food aid programs, we agree Congress understood that it would increase food aid transportation costs, which is why it required that U.S.-flag ships only be used if they are available at "fair and reasonable rates." In addition, to pay for this requirement, food aid program budgets include estimated

food aid transportation costs. Yet, because of (1) how each food aid program is funded, (2) how cargo preference compliance is measured, and (3) how limited the availability is of efficient U.S.-flag ships to carry these cargos, the operation of U.S. food aid programs is adversely affected.

In addition, as discussed in chapter 2, the application of preference cargos to food aid cargos does not significantly contribute to ensuring that an adequate and viable U.S. merchant marine is maintained to meet the objectives of the Merchant Marine Act of 1936, as amended.

13. Our estimate of almost \$600 million spent on ocean freight differential over the last 3 years was based on data provided by USDA. USDA's data are derived for each food aid shipment from the actual shipment "bill of lading." We had asked for these data from MARAD officials but were informed that they were uncomfortable with the accuracy of their data for a portion of the time period included in the scope of our work. We had also asked AID for these data, but AID referred us to USDA, since USDA keeps all the official records on the total amount of OFD paid for the food aid programs. We accepted USDA's data as the best available.

(See figure in printed edition.)Appendix IX COMMENTS FROM THE DEPARTMENT OF DEFENSE

======== Appendix III

The following is GAO's comment on the Department of Defense's letter dated September 23, 1994.

#### GAO COMMENT ------ Appendix III:6

1. DOD suggested several technical changes to the specific wording of sentences in the draft report. The most significant changes involved sentences that reflected DOD's position on its need for crews supported by the bulk carriers that transported the majority of food aid tonnage. Based on DOD's suggestions, we revised the appropriate sentences to more accurately reflect DOD's position.

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#### **RELATED GAO PRODUCTS**

=========== Chapter 1

Public Law 480 Title I: Economic and Market Development Objectives Not Met (GAO/T-GGD-94-191, Aug. 3, 1994).

Strategic Sealift: Summary of Workshop on Crewing the Ready Reserve Force (GAO/NSIAD-94-177, June 6, 1994).

Foreign Assistance: Inadequate Accountability for U.S. Donations to the World Food Program (GAO/NSIAD-94-29, Jan. 28, 1994).

Former Soviet Union: Agricultural Reform and Food Situation in Its Successor States (GAO/GGD-94-17, Nov. 19, 1993).

U.S. Food Aid Exports: The Role of Cargo Preference (GAO/T-GGD-93-34, June 17, 1993).

Food Aid: Management Improvements Are Needed to Achieve Program Objectives (GAO/NSIAD-93-168, July 23, 1993).

Foreign Assistance: Non-Emergency Food Aid Provided Through Private Voluntary Organizations (GAO/NSIAD-90-179, July 24, 1990).

Cargo Preference Requirements: Their Impact on U.S. Food Aid Programs and the U.S. Merchant Marine (GAO/NSIAD-90-174, June 19, 1990).

Status Report on GAO's Reviews of P.L. 480 Food Aid Programs (GAO/T-NSIAD-90-23, Mar. 21, 1990).

P.L. 480 Title I Transportation Issues (GAO/T-NSIAD-90-08, Nov. 7, 1989).